



Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Secure Storage Chain of Custody Original Sample

Client/Project: Tierra Solutions, Inc – Painesville, OH

Preservative: None

Matrix: Soil

SDG: PNV88

Sample # Range of Entry Group: 4692565-72

Bottle Type: (96) 500ml glass

[illegible]

Secure Storage Chain of Custody Subsample

Client/Project: Tierra Solutions, Inc. - Painesville, OH

Preservative: NONE

Matrix: Soil


Sample # Range for Entry Group: 4692565-72

Bottle Type: (62) 402 plastic cup
composite

SDG: PNV88

[illegible]

Secure Storage Chain of Custody Subsample

Client/Project: Tierra Solutions, Inc - Painesville, OHPreservative: NONEMatrix: SoilSample # Range for Entry Group: 4692565-72Bottle Type: 1000ml glassSDG: PNV88
 Composite
(20) 500ml glass

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
4692565-72	JF Freisha 1201	Main Storage	1-20-06	1435	Storage	
4692565-72	Alcand Storage	MM 1424	1-23-06	5:30	715 Semi Soil Sonication	
4692565-72	MM 1424	Alcand Storage	1-23-06	6:00	Storage	
4692565-72	Main Storage	Smg/224	1/23/06	1700	PH	
4692565-72	Smg/224	Main Storage	1/23/06	1900	Storage	
4692565-72	Main Storage	JF Freisha 1201	1-24-06	1715	Moist	
4692565-72	JF Freisha 1201	Main Storage	1-24-06	1730	Storage	
4692565-72	Main Storage	Daniel S. Smith (23)	1-24-06	2135	Cr ⁺ digest	X
4692565-72	Daniel S. Smith (23)	Main Storage	1-25-06	0235	Storage	
4692565-72	Main Storage	Alcandier 1313	1-25-06	0600	CLP Test Extraction	X
4692565-72	Alcandier 1313	Main Storage	1-25-06	0610	Storage	
4692565-72	Main Storage	CYTian 1242	01-25-06	10:45	CN prep	X
4692565-72	CYTian 1242	Main Storage	01-25-06	12:15	Storage	
4692565-72	Main Storage	Daniel S. Smith (23)	1-25-06	2100	Cr ⁺ digest	
4692565-72	Daniel S. Smith (23)	Main Storage	1-26-06	0330	Storage	
4692565-72	Main Storage	Micidig 1326	1-30-06	0730	BSL	
4692565-72	Main Storage	Main Storage	1-30-06	0745	Storage	2228

#37111/1526 +30-06

**Secure Storage Chain of Custody
Metals**

Client/Project: Tierra Solutions

Sample #: 4692565-72

SDG: PNV88

Digest Type (circle one): Hg Metals GF

Trial No: _____ (If not 1, fill in)

Batch No:

0 6 0 2 9

1 8 4 9

0 0 1

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody
4692565-72	AM Shpkovitz 0862	ICP Locked Storage	1-30-06	02:35	metals prep / ICP Locked Storage
4692565-72	ICP Locked Storage	S. Whman 1677	1-30-06	9:05	ICP ANALYSIS
4692565-72	S. Whman 1677	ICP Locked Storage	1-30-06	9:15	ICP Locked Storage
4692565-72	ICP Locked Storage	S. Whman 1677	③ Su 1677 + 10:3 2-4-06	10:30	ICP ANALYSIS
4692565-72	S. Whman 1677	ICP Locked Storage	2-4-06	10:40	ICP Locked Storage
4692565-72	ICP Locked Storage	S. Whman 1677	2/8/06	9:00	ICP ANALYSIS
4692565-72	S. Whman 1677	ICP Locked Storage	2/8/06	9:10	ICP Locked Storage

8222 of 1

Secure Storage Chain of Custody Metals

Client/Project: Terra Solutions

Sample #: 4693387 SDG: PNV 88

Digest Type (circle one): Hg Metals GF Trial No: 3 (If not 1, fill in)

Batch No:

0	6	0	2	9
---	---	---	---	---

5	7	2	0
---	---	---	---

0	0	1
---	---	---

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody
4693387	<i>[Signature]</i> 1184	ICP locked SPRAG	01/30/06	00:13	metal anal. / ICP locked SPRAG
4693387	ICP LOCKED STORAGE	EEBY 420	01/30/06	00:35	ICP Analysis
4693387	EEBY 420	ICP locked Storage	01/30/06	04:35	ICP locked Storage

8222
1 of 1

**Secure Storage Chain of Custody
Metals**

Client/Project: Tierra Solutions

Sample #: 4692565-72

SDG: PNV88

Digest Type (circle one): Hg Metals GF

Trial No: _____ (If not 1, fill in)

Batch No:

0 6 0 2 9

0 4 9 4

0 0 1

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody
4692565-72	AIN Stipkonits 0862	metals prep room locked storage	1-30-06	00:45	metals prep / metals prep room locked storage
4692565-72	Prep Room Storage	354 D. Valentin	1-30-06	11:20	Hg Analysis Discard

6224 of 1

Secure Storage Chain of Custody
Metals

Client/Project: Tierra Solutions, Inc - Painesville, OH

Sample #: 4693387 SDG: PNV88

Digest Type (circle one): (Hg) Metals GF

Trial No: _____ (If not 1, fill in)

Batch No:

0 6 0 2 4

0 8 2 1

0 0 1

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody
4693387	n. marini 823	Instrument 9680	1/24/06	20:30	Hg digestion Instrument 9680
4693387	Inst # 9680	D. Valentin ³⁵⁷	1-25-06	06:20	Hg Analysis Discard

8235 of 1

**Type I Data Package
for
Tierra Solutions, Inc.**

SDG# PNV88

Project: Painesville, OH
Soil and Water Samples
Collected on 01/19/06-01/20/06
Sample No. 4692565-4692572, 4693387, 4693470

PA Cert. # 36-037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521

Prepared by Jessica Barn
Reviewed by Audrey McClune
Date 2-17-06

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

**Sample Reference List for SDG Number PNV88
with a Data Package Type of I
06101 - Tierra Solutions, Inc.
Project: Painesville, OH**

Lab Sample Number	Lab Sample Code	<u>Client Sample Description</u>
4692565	6005-	TIE023:6005:S010030 Soil Sample
4692566	6020-	TIE023:6020:S010030 Soil Sample
4692567	6014-	TIE023:6014:S010030 Soil Sample
4692568	6007-	TIE023:6007:S010030 Soil Sample
4692569	6024-	TIE023:6024:S010030 Soil Sample
4692570	6028-	TIE023:6028:S010050 Soil Sample
4692571	6008-	TIE023:6008:S005020 Soil Sample
4692572	6010-	TIE023:6010:S005025 Soil Sample
4693387	EB1J-	TIE023:EB1:W012006 Grab Water Sample

Hull

& Associates, Inc.

☐ Dublin, OH
5307 Emerald Parkway
Suite 200
Dublin, OH 43018
Phone: (614) 793-8777
Fax: (614) 793-9070

☐ Indianapolis, IN
5330 E. 75th St.
Suite 174
Indianapolis, IN 46250
Phone: (317) 658-0558
Fax: (317) 658-0553

☒ Mason, OH
4300 Parkway Dr.
Suite 100
Mason, OH 45040
Phone: (513) 459-9677
Fax: (513) 459-9869

☐ Solon, OH
5151 Cochran Road
Suite A
Solon, OH 44139
Phone: (440) 519-2555
Fax: (440) 519-2560

☐ Toledo, OH
3401 Gendie Ave.
Suite 300
Toledo, OH 43614
Phone: (419) 385-2018
Fax: (419) 385-5487

REPORT TO: BILL BEACH

Client: TIERRA SOLUTIONS INC.

Site: PAIDSVILLE

Project #: TIE 023 Phase:

Samplers: M. TENALYSEN

PROJECT NO.	SAMPLE LOCATION	SAMPLE TYPE & ID	NO. OF CONT.	METALS	COLLECTION DATE/TIME	MOISTURE	SEMIVOLATILES	PESTICIDES, PCB'S	ANALYSES	COMMENTS
TIE023	6005	: S0100030	25	1/19/06	10:45	X	X	X	Y	ORP
	6020	: S0100030	25	1/19/06	10:45	X	X	X	Y	Add TCE + Cu
	6014	: S0100030	25	1/19/06	9:15	X	X	X	Y	per B. Beach
	6007	: S0100030	25	1/19/06	11:55	X	X	X	Y	work
	6024	: S0100030	25	1/19/06	9:45	X	X	X	Y	1/23/06
	6028	: S0100030	25	1/19/06	10:25	X	X	X	Y	
	6008	: S005020	25	1/19/06	11:30	X	X	X	Y	
	6010	: S005025	25	1/19/06	11:10	X	X	X	Y	
	:	:								
	:	:								
	:	:								
	:	:								

RELINQUISHED BY: M.T. EMMERIN DATE: 1/11/06 TIME: 1700

RECEIVED BY: _____ DATE: _____ TIME: _____

RECEIVED FOR LAB BY: Ruthy Binkley DATE: 1-20-06 TIME: 0900

COOLER TEMPERATURE AS RECEIVED: 6°C

DELIVER TO: LANCASTER LABS

METHOD OF DELIVERY: FED-EX

AIRBILL NUMBER: 8543 6662 9396

NOTES: _____

TURN AROUND TIME: STANDARD DAYS

Environmental Sample Administration Receipt Documentation Log

Client/Project: Tierra Solutions (off.) Inc Shipping Container Sealed: Y / N
 Date of Receipt: 1-20-06 Custody Seal Present: Y / N
 Time of Receipt: 0900 Custody Seal Intact: Y / N / NA
 Source Code: 50-1 Package: Chilled / Not Chilled
 Unpacker Emp. No.: 1255

Temperature of Shipping Containers	
#1	#2
Thermometer ID: <u>10559</u>	Thermometer ID: _____
Temp.: <u>6.0</u>	Temp.: _____
Temp. Bottle / <u>Surface Temp.</u>	Temp. Bottle / Surface Temp.
<u>Wet Ice</u> / Dry Ice / Ice Packs	Wet Ice / Dry Ice / Ice Packs
Ice Present? <u>Y</u> / N	Ice Present? Y / N
Loose / <u>Bagged</u>	Loose / Bagged
#3	#4
Thermometer ID: _____	Thermometer ID: _____
Temp.: _____	Temp.: _____
Temp. Bottle / Surface Temp.	Temp. Bottle / Surface Temp.
Wet Ice / Dry Ice / Ice Packs	Wet Ice / Dry Ice / Ice Packs
Ice Present? Y / N	Ice Present? Y / N
Loose / Bagged	Loose / Bagged

Paperwork Discrepancy/Unpacking Problems: Tie 023-6005-5010030 (1) Encne ID label missing the 5

Tie 023-6008-5005020 (received 3 Encne w/ diff ID labels)

Enclosed

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
<u>Kathleen Binkley</u>	<u>1-20-06</u>	<u>1030</u>	Unpacking / <u>Storage</u>
<u>Da Westlund</u>	<u>1/20/06</u>	<u>1115</u>	Place in Storage or <u>Entry</u>
			Remove from Storage
			Place in Storage or Entry
			Entry

Environmental Sample Administration Receipt Documentation Log

Client/Project: Tierra Solutions Inc

Shipping Container Sealed: (Y) / N

Date of Receipt: 1/21/06

Custody Seal Present: (Y) / N

Time of Receipt: 1030

Custody Seal Intact: (Y) / N / NA

Source Code: 50-1

Package: (Chilled) / Not Chilled

Unpacker Emp. No.: 1696

Temperature of Shipping Containers			
#1		#2	
Thermometer ID: <u>429983</u>		Thermometer ID: _____	
Temp.: <u>3.5°</u>		Temp.: _____	
Temp. Bottle / Surface Temp.		Temp. Bottle / Surface Temp.	
Wet Ice / Dry Ice / Ice Packs		Wet Ice / Dry Ice / Ice Packs	
Ice Present? <u>(Y)</u> N		Ice Present? Y / N	
Loose / <u>(Bagged)</u>		Loose / Bagged	
#3		#4	
Thermometer ID: _____		Thermometer ID: _____	
Temp.: _____		Temp.: _____	
Temp. Bottle / Surface Temp.		Temp. Bottle / Surface Temp.	
Wet Ice / Dry Ice / Ice Packs		Wet Ice / Dry Ice / Ice Packs	
Ice Present? Y / N		Ice Present? Y / N	
Loose / Bagged		Loose / Bagged	

Paperwork Discrepancy/Unpacking Problems: received 6 trip blanks

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
<u>Jayson Ibach</u>	<u>1/21/06</u>	<u>1045</u>	Unpacking <u>to Storage</u>
<u>[Signature]</u>	<u>1/21/06</u>	<u>1133</u>	Place in Storage or <u>(Entry)</u>
			Remove from Storage
			Place in Storage or Entry
			Entry

Chain-of-Custody Record



Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Secure Storage Chain of Custody Original Sample

Client/Project: Tierra Solutions, Inc – Painesville, OH

Preservative: None

Matrix: Soil

SDG: PNV88

Sample # Range of Entry Group: 4692565-72

Bottle Type: (96) 500ml glass

[illegible]

Secure Storage Chain of Custody Subsample

Client/Project: Tierra Solutions, Inc - Painesville, OH
 Preservative: NONE Matrix: Soil
 Sample # Range for Entry Group: 4692565-72 Bottle Type: 1000ml glass
 SDG: PNV88 Composite
(20) 500ml glass

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
4692565-72	J Freisha 1201	Main Storage	1-20-06	1435	Storage	
4692565-72	Main Storage	MM1424	1-23-06	5:30	715 Semi Soil Sonication	
4692565-72	MM1424	Main Storage	1-23-06	6:00	Storage	
4692565-72	Main Storage	Smg/234	1/23/06	1700	PH	
4692565-72	Smg/234	Main Storage	1/23/06	1900	Storage.	
4692565-72	Main Storage	J Freisha 1201	1-24-06	1715	Moist	
4692565-72	J Freisha 1201	Main Storage	1-24-06	1736	Storage	
4692565-72	Main Storage	Daniel S. Selt ⁽²³⁾	1-24-06	2135	Cr ⁶⁺ digest	X
4692565-72	Daniel S. Selt ⁽²³⁾	Main Storage	1-25-06	0235	Storage	
4692565-72	Main Storage	Alcavation 1313	1-25-06	0600	CLP Test Extraction	X
4692565-72	Alcavation 1313	Main Storage	1-25-06	0610	Storage	
4692565-72	Main Storage	CYTian 1242	01-25-06	10:45	CN prep	X
4692565-72	CYTian 1242	Main Storage	01-25-06	12:15	Storage	
4692565-72	Main Storage	Daniel S. Selt ⁽²³⁾	1-25-06	2100	Cr ⁶⁺ digest	
4692565-72	Daniel S. Selt ⁽²³⁾	Main Storage	1-26-06	0330	Storage	
4692565-72	Main Storage	Maidig 1046	1-30-06	0730	ORP TSS	
4692565-72	Main Storage	Main Storage	1-30-06	0745	Storage	####

#3mwp/1526 + 30-w

Client/Project:

TEKRA SOLUTIONS - PAINESVILLE OH

Preservative:

NONE

Matrix:

Soil

SDG:

PNV88

Sample # Range of Entry Group:

4692565-72

Bottle Type:

20 (500ml glass)

2016.01



Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Secure Storage Chain of Custody Original Sample

Client/Project: Tierra Solutions, Inc – Painesville, OH

Preservative: None

Matrix: WW

SDG: PNV60

Sample # Range of Entry Group: 4693387

Bottle Type: (04) 500 ml plastic

[illegible]

1997

2016.01

Secure Storage Chain of Custody

METHODOLOGY SUMMARY/REFERENCE

5892 Hexavalent Chromium by IC (solids)

A measured volume of sample is introduced into the ion chromatograph using a well buffered ammonium sulfate, ammonium hydroxide eluent. A guard column removes organics from the sample before hex chrome is separated on an anion exchange separator column. Postcolumn derivatization of the Cr(VI) with diphenylcarbohydrazide is followed by detection of the colored complex at 530 nm.

Reference: Test Methods for Evaluating Solid Waste,
SW-846, Method 7199, December 1996

0383 TOC by Lloyd Kahn Method

Total organic carbon is determined by acidifying a sample aliquot and heating it to remove any inorganic carbon. The sample is then heated to 900°C for combustion of the remaining organic carbon. The resulting carbon dioxide from the organic carbon is detected by a nondispersive infrared detector that has been calibrated to directly display the mass of carbon dioxide detected. The mass is proportional to the mass of total organic carbon in the sample.

Reference: Lloyd Kahn Modified

0276 Hexavalent Chromium (water)

Hexavalent chromium is determined colorimetrically using diphenylcarbazide. The absorbance is read at 540 nm and compared to a standard curve.

Reference: Test Methods for Evaluating Solid Waste
SW-846, Method 7196A, July 1992

7825 Hexavalent Chromium (Extraction)

The sample is digested using a hot 3% sodium carbonate, 2% sodium hydroxide solution and then filtered through a 0.45 micron filter. The digestates are then ready for color development by analysis #0425. ~~6012~~

Reference: Test Methods for Evaluating Solid Waste,
SW-846, Method 3060A

7552 ORP Observed

The oxidation-reduction potential is measured using a platinum electrode. The potential recorded is the electromotive force observed between the noble electrode and a reference electrode.

Reference: Annual Book of ASTM Standards, 1985, Method D-1498

1126 Total Petroleum Hydrocarbons, 8124 TPH IR (W) Prep

The sample is extracted with trichlorotrifluoroethane in a separatory funnel. Silica gel is added. Petroleum hydrocarbons in the extract are quantitatively measured by an infrared spectrophotometer.

Reference: Methods for Chemical Analysis of Water and Wastes
USEPA 600/4-79-020, Method 418.1

0200 pH (water)

The activity of hydrogen ions in the sample is measured using a glass electrode and a reference electrode.

Reference: Methods for Chemical Analysis of Water and Wastes,
USEPA 600/4-79-020, Method 150.1

1441 pH (solid)

A 1:1 slurry (50 g sample and 50 ml deionized water) is tumbled for 1 hour. The activity of hydrogen ions in the supernatant is measured using a glass electrode and a reference electrode.

Reference: USEPA Contract Laboratory Program
Statement of Work for Organic Analysis, Multimedia
Multiconcentration Document, OLMO4.3

1353 Moisture (solid)

A well mixed sample is placed in a tared container and dried to constant weight in an oven at 103-105C. The decrease in weight is the total moisture.

0013

Reference: USEPA Contract Laboratory Program
Statement of Work for Organic Analysis, Multimedia
Multiconcentration Document, OLMO3.2



ANALYTICAL RESULTS

Prepared for:

Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 975061. Samples arrived at the laboratory on Friday, January 20, 2006. The PO# for this group is RIANAL01.

Client Description

TIE023:6005:S010030 Soil Sample
TIE023:6020:S010030 Soil Sample
TIE023:6014:S010030 Soil Sample
TIE023:6007:S010030 Soil Sample
TIE023:6024:S010030 Soil Sample
TIE023:6028:S010050 Soil Sample
TIE023:6008:S005020 Soil Sample
TIE023:6010:S005025 Soil Sample

Lancaster Labs Number

4692565
4692566
4692567
4692568
4692569
4692570
4692571
4692572

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Tierra Solutions, Inc.
1 COPY TO Hull & Associates, Inc.
1 COPY TO Data Package Group

Attn: Paul Dugas
Attn: Bill Beach

8814



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Max E. Snavely".

Max E. Snavely
Senior Specialist

0015



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692565

TIE023:6005:S010030 Soil Sample
Painesville, OH

Collected:01/19/2006 13:40 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00

Tierra Solutions, Inc.

Reported: 02/16/2006 at 00:54

PO Box 1487

Discard: 03/03/2006

Painesville OH 44077

6005- SDG#: PNV88-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00383	TOC by Lloyd Kahn The quantitation limit for TOC was increased due to the nature of the sample matrix.	n.a.	N.D.	210.	mg/kg	1
01353	Moisture	n.a.	12.0	0.50	%	1
01441	pH The pH of the method blank (background soil) analyzed with the sample was 7.06. The pH was performed on a 1:1 slurry (50 gm of sample and 50 ml of deionized water) after being tumbled for one hour.	n.a.	7.47	0.0100	Std. Units	1
05892	Hexavalent Chromium by IC	18540-29-9	N.D.	0.23	mg/kg	1
07552	ORP Observed The ORP reported is the observed potential of the platinum electrode used during the analysis.	n.a.	124.	1.0	mV	1
07157	OLM03.2 Volatiles in Soils A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
07125	SVOA Library Search OLM03.2 The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form. An "X" indicates an isomer of the listed compound.					
07126	VOA Library - Search OLM03.2 The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.					

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0016



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692565

TIE023:6005:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 13:40 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:54
Discard: 03/03/2006

Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6005- SDG#: PNV88-01

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00159	Mercury	SOW ILM04.0	1	01/30/2006 12:01	Damary Valentin	1
01643	Aluminum	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
01650	Calcium	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
01654	Iron	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
01657	Magnesium	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
01662	Potassium	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
01667	Sodium	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06925	Thallium	SOW ILM04.0	2	02/08/2006 12:52	Joanne M Gates	1
06935	Arsenic	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06936	Selenium	SOW ILM04.0	2	02/08/2006 12:52	Joanne M Gates	1
06944	Antimony	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06946	Barium	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06947	Beryllium	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06949	Cadmium	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06951	Chromium	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06952	Cobalt	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06953	Copper	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06955	Lead	SOW ILM04.0	2	02/08/2006 12:52	Joanne M Gates	1
06958	Manganese	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06961	Nickel	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06966	Silver	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06971	Vanadium	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
06972	Zinc	SOW ILM04.0	1	01/31/2006 08:06	Joanne M Gates	1
00383	TOC by Lloyd Kahn	Lloyd Kahn modified	1	02/02/2006 10:55	James S Mathiot	1
01353	Moisture	SOW OLM03.2	1	01/24/2006 16:56	Scott W Freisher	1
01441	pH	SOW OLM04.3	1	01/24/2006 18:30	Luz M Groff	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	01/25/2006 10:44	William L Hamaker Jr	1
05910	Total Cyanide CLP (solid)	SOW ILM04.0	1	01/27/2006 17:33	Venia B McFadden	1
07552	ORP Observed	ASTM D1498	1	01/30/2006 08:30	Michelle L Heidig	1
04562	OLM03.2	SOW OLM03.2	1	01/31/2006 16:31	Richard A Shober	1
	Pesticides/PCBs/Soil					
04438	OLM03.2 Semivolatiles/Soil	SOW OLM03.2	1	02/06/2006 23:00	Linda M Hartenstine	1
07157	OLM03.2 Volatiles in Soils	SOW OLM03.2	1	01/26/2006 19:07	Jason M Long	0.81
00494	SW CLP Hg Digest	SOW ILM04.0	1	01/29/2006 23:15	Annamaria Stipkovits	1
01849	SW CLP ICP Digest	SOW ILM04.0	1	01/29/2006 20:50	Annamaria Stipkovits	1
04185	CLP Soil Extraction	SOW OLM03.2	1	01/25/2006 07:00	Danette S Cavalier	1
04607	CLP Soil Extraction	SOW OLM03.2	1	01/23/2006 05:00	Mark P Mastropietro	1
05909	CLP Cyanide Solid	SOW ILM04.0	1	01/25/2006 11:40	Choon Y Tian	1
	Distillation					
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	01/20/2006 16:00	Justin M Bowers	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	01/24/2006 22:15	Daniel S Smith	1



Lancaster Laboratories, Inc.
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Lancaster Laboratories Sample No. SW 4692565

TIE023:6005:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 13:40 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:54
Discard: 03/03/2006

Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6005- SDG#: PNV88-01

08389	GC/MS - LL Encore Prep	SW-846 5035
08389	GC/MS - LL Encore Prep	SW-846 5035

1	01/20/2006 16:08	Justin M Bowers	n.a.
2	01/20/2006 16:09	Justin M Bowers	n.a.

0010



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USEPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6005-

Lab Name: LANCASTER LABORATORIES Contract: _____
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: PNV88
Matrix (soil/water): SOIL Lab Sample ID: 4692565
Level (low/med): LOW Date Received: 01/20/06
% Solids: 88.0
Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700			P
7440-36-0	Antimony	1.7	U	N	P
7440-38-2	Arsenic	10.7		N	P
7440-39-3	Barium	84.8			P
7440-41-7	Beryllium	0.56	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	32200			P
7440-47-3	Chromium	16.9			P
7440-48-4	Cobalt	13.1			P
7440-50-8	Copper	26.9			P
7439-89-6	Iron	29400			P
7439-92-1	Lead	15.5			P
7439-95-4	Magnesium	11100		*	P
7439-96-5	Manganese	560			P
7439-97-6	Mercury	0.023	U		CV
7440-02-0	Nickel	32.7			P
7440-09-7	Potassium	2130			P
7782-49-2	Selenium	0.94	U		P
7440-22-4	Silver	0.48	B		P
7440-23-5	Sodium	175	B		P
7440-28-0	Thallium	2.9			P
7440-62-2	Vanadium	17.0			P
7440-66-6	Zinc	72.2			P
57-12-5	Cyanide	0.21	U		CA

Color Before: BROWN
Color After: YELLOW
Comments:

Clarity Before: _____
Clarity After: _____

Texture: MEDIUM
Artifacts: _____

FORM I - IN

ILM04.0

2219



Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681


 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6005-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692565
 Sample wt/vol: 6.19 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s01.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 12 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/Kg Q

74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	4	J
75-09-2	Methylene Chloride	2	U
75-34-3	1,1-Dichloroethane	0.9	U
540-59-0	1,2-Dichloroethene (Total)	2	U
78-93-3	2-Butanone	6	U
67-66-3	Chloroform	0.9	U
71-55-6	1,1,1-Trichloroethane	0.9	U
56-23-5	Carbon Tetrachloride	0.9	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	0.9	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	0.9	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	4	J
10061-02-6	trans-1,3-Dichloropropene	0.9	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	0.9	U
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	0.9	U
108-90-7	Chlorobenzene	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	Xylene (Total)	2	J

page 1 of 2

FORM I VOA

OLM03.0

8828



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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6005-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692565
 Sample wt/vol: 6.19 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s01.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 12 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/Kg Q

100-42-5	Styrene	0.9	U
75-25-2	Bromoform	0.9	U
79-34-5	1,1,2,2-Tetrachloroethane	0.9	U

page 2 of 2

FORM I VOA

OLM03.0

00001



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 1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6005-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692565
 Sample wt/vol: 30 (g/mL) G Lab File ID: hb062.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec: 12 dec: Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/06/06
 Injection Volume: 2 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
108-95-2	Phenol	38	U	
111-44-4	bis(2-Chloroethyl)ether	38	U	
95-57-8	2-Chlorophenol	38	U	
541-73-1	1,3-Dichlorobenzene	38	U	
106-46-7	1,4-Dichlorobenzene	38	U	
95-50-1	1,2-Dichlorobenzene	38	U	
95-48-7	2-Methylphenol	38	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	38	U	
106-44-5	4-Methylphenol	38	U	
621-64-7	N-Nitroso-di-n-propylamine	38	U	
67-72-1	Hexachloroethane	38	U	
98-95-3	Nitrobenzene	38	U	
78-59-1	Isophorone	38	U	
88-75-5	2-Nitrophenol	38	U	
105-67-9	2,4-Dimethylphenol	76	U	
111-91-1	bis(2-Chloroethoxy)methane	38	U	
120-83-2	2,4-Dichlorophenol	38	U	
120-82-1	1,2,4-Trichlorobenzene	38	U	
91-20-3	Naphthalene	38	U	
106-47-8	4-Chloroaniline	150	U	
87-68-3	Hexachlorobutadiene	38	U	
59-50-7	4-Chloro-3-methylphenol	38	U	
91-57-6	2-Methylnaphthalene	38	U	
77-47-4	Hexachlorocyclopentadiene	76	U	
88-06-2	2,4,6-Trichlorophenol	38	U	
95-95-4	2,4,5-Trichlorophenol	38	U	
91-58-7	2-Chloronaphthalene	38	U	
88-74-4	2-Nitroaniline	38	U	
131-11-3	Dimethylphthalate	38	U	
606-20-2	2,6-Dinitrotoluene	38	U	

FORM I SV-1

OLM03.0

8822



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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6005-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692565
 Sample wt/vol: 30 (g/mL) G Lab File ID: hb062.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec: 12 dec: Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/06/06
 Injection Volume: 2 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
208-96-8-----	Acenaphthylene	38	U	!
99-09-2-----	3-Nitroaniline	76	U	!
83-32-9-----	Acenaphthene	38	U	!
51-28-5-----	2,4-Dinitrophenol	190	U	!
100-02-7-----	4-Nitrophenol	38	U	!
132-64-9-----	Dibenzofuran	38	U	!
121-14-2-----	2,4-Dinitrotoluene	38	U	!
84-66-2-----	Diethylphthalate	38	U	!
7005-72-3-----	4-Chlorophenyl-phenylether	38	U	!
86-73-7-----	Fluorene	38	U	!
100-01-6-----	4-Nitroaniline	76	U	!
534-52-1-----	4,6-Dinitro-2-methylphenol	38	U	!
86-30-6-----	N-Nitrosodiphenylamine	38	U	!
101-55-3-----	4-Bromophenyl-phenylether	38	U	!
118-74-1-----	Hexachlorobenzene	38	U	!
87-86-5-----	Pentachlorophenol	190	U	!
85-01-8-----	Phenanthrene	38	U	!
120-12-7-----	Anthracene	38	U	!
86-74-8-----	Carbazole	38	U	!
84-74-2-----	Di-n-butylphthalate	76	U	!
206-44-0-----	Fluoranthene	38	U	!
129-00-0-----	Pyrene	38	U	!
85-68-7-----	Butylbenzylphthalate	38	U	!
91-94-1-----	3,3'-Dichlorobenzidine	76	U	!
56-55-3-----	Benzo(a)anthracene	38	U	!
117-81-7-----	bis(2-Ethylhexyl)phthalate	38	U	!
218-01-9-----	Chrysene	38	U	!
117-84-0-----	Di-n-octylphthalate	38	U	!
205-99-2-----	Benzo(b)fluoranthene	38	U	!
207-08-9-----	Benzo(k)fluoranthene	38	U	!

FORM I SV-2

OLM03.0

0023



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 717-656-2300 Fax: 717-656-2681



1C cont
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6005-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692565
 Sample wt/vol: 30 (g/mL) G Lab File ID: hb062.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec: 12 dec: Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/06/06
 Injection Volume: 2 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MDL	UG/KG	Q
50-32-8-----	Benzo(a)pyrene	38	U		
193-39-5-----	Indeno(1,2,3-cd)pyrene	38	U		
53-70-3-----	Dibenz(a,h)anthracene	38	U		
191-24-2-----	Benzo(g,h,i)perylene	38	U		

FORM I SV-3

OLM03.0

8824



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 1D
 ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories

Contract:

6005-

Lab Code: Case No.: SAS No.: SDG No.: PNV88
 Matrix: (soil/water) SOIL Lab Sample ID: 4692565
 Sample wt/vol: 30 (g/mL) g Lab File ID: 4D1353.52R
 % Moisture: 12 decanted: (Y/N)N Date Received: 01/20/06
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/25/06
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/31/06
 Injection Volume: 1 (uL) Dilution Factor: 1
 GPC Cleanup: (Y/N) Y pH: 8 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/kg Q

319-84-6	alpha-BHC	0.19!U	!
58-89-9	gamma-BHC (Lindane)	0.19!U	!
319-85-7	beta-BHC	0.19!U	!
319-86-8	delta-BHC	0.19!U	!
76-44-8	Heptachlor	0.19!U	!
309-00-2	Aldrin	0.19!U	!
1024-57-3	Heptachlor epoxide	0.19!U	!
5103-74-2	gamma-Chlordane	0.20!JP	!
5103-71-9	alpha-Chlordane	0.19!U	!
72-55-9	4,4'-DDE	0.38!U	!
959-98-8	Endosulfan I	0.19!U	!
60-57-1	Dieldrin	0.38!U	!
72-20-8	Endrin	0.38!U	!
72-54-8	4,4'-DDD	0.50!U	!
33213-65-9	Endosulfan II	0.38!U	!
50-29-3	4,4'-DDT	0.38!U	!
7421-93-4	Endrin aldehyde	0.76!U	!
72-43-5	Methoxychlor	2.3!U	!
1031-07-8	Endosulfan sulfate	0.38!U	!
53494-70-5	Endrin ketone	0.38!U	!
12674-11-2	Aroclor-1016	17!U	!
11104-28-2	Aroclor-1221	19!U	!
11141-16-5	Aroclor-1232	30!U	!
53469-21-9	Aroclor-1242	9.9!U	!
12672-29-6	Aroclor-1248	28!U	!
11097-69-1	Aroclor-1254	10!U	!
11096-82-5	Aroclor-1260	9.1!U	!
8001-35-2	Toxaphene	22!U	!

FORM I

OLM03.0

0025



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 2425 New Holland Pike
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 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6005-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692565
 Sample wt/vol: 6.19 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s01.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec. 12 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

Number TICs found: 12

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.34	520	J
2.	Unknown	2.85	53	J
3.	Unknown alkane	3.14	42	J
4.	Unknown alkane	4.40	24	J
5. 96-14-0	Pentane, 3-methyl-	4.79	8	NJ
6. 110-54-3	Hexane	5.19	17	NJ
7.	Unknown alicyclic	6.11	8	J
8.	Unknown hydrocarbon	7.04	17	J
9. 108-87-2	Cyclohexane, methyl-	8.58	8	NJ
10.	Unknown siloxane	10.33	6	J B
11.	Unknown siloxane	12.34	16	J B
12.	Unknown siloxane	13.65	6	J
13.				
14.				
15.				
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page 1 of 1

FORM I VOA-TIC

OLM03.0

8826



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 2425 New Holland Pike
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 717-656-2300 Fax: 717-656-2681



1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692565
 Sample wt/vol: 30 (g/mL) g Lab File ID: hb062.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: 12 Decanted: (Y/N) Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/06/06
 Injection Volume: 2 (uL) Dilution Factor: 1
 GPC Cleanup: Y pH: _____ Extraction: Sonc

CONCENTRATION UNITS:

Number TICs found: 14 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	18.017	190	J
2.	Unknown	20.808	110	J
3.	Unknown	21.967	100	J
4.	Unknown	23.404	120	J
5.	Unknown	24.980	80	J
6.	Unknown	25.268	330	J B
7.	Unknown Carboxylic Acid	28.505	96	J
8.	Unknown	28.833	91	J
9.	Unknown Carboxylic Acid	30.514	130	J
10.	Unknown Carboxylic Acid	30.753	1800	J B
11.	Unknown	30.932	250	J
12.	Unknown	32.485	1200	J B
13.	Unknown	32.664	160	J
14.	Unknown	48.162	250	J
15.				
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page 1 of 1

FORM I SV-1

OLM03.0

8827



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692566

TIE023:6020:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 10:45 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6020- SDG#: PNV88-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00383	TOC by Lloyd Kahn	n.a.	3,600.	210.	mg/kg	1
01353	Moisture	n.a.	14.0	0.50	%	1
01441	pH	n.a.	7.48	0.0100	Std. Units	1

The pH of the method blank (background soil) analyzed with the sample was 7.06.

The pH was performed on a 1:1 slurry (50 gm of sample and 50 ml of deionized water) after being tumbled for one hour.

05892	Hexavalent Chromium by IC	18540-29-9	N.D.	0.23	mg/kg	1
07552	ORP Observed	n.a.	124.	1.0	mV	1

The ORP reported is the observed potential of the platinum electrode used during the analysis.

07157 OLM03.2 Volatiles in Soils

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

07125 SVOA Library Search OLM03.2

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form. An "X" indicates an isomer of the listed compound.

07126 VOA Library - Search OLM03.2

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

8828

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692566

TIE023:6020:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 10:45 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6020- SDG#: PNV88-02

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SOW ILM04.0	1	01/30/2006 12:02	Damary Valentin	1
01643	Aluminum	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
01650	Calcium	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
01654	Iron	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
01657	Magnesium	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
01662	Potassium	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
01667	Sodium	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06925	Thallium	SOW ILM04.0	2	02/08/2006 12:56	Joanne M Gates	1
06935	Arsenic	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06936	Selenium	SOW ILM04.0	2	02/08/2006 12:56	Joanne M Gates	1
06944	Antimony	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06946	Barium	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06947	Beryllium	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06949	Cadmium	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06951	Chromium	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06952	Cobalt	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06953	Copper	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06955	Lead	SOW ILM04.0	2	02/08/2006 12:56	Joanne M Gates	1
06958	Manganese	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06961	Nickel	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06966	Silver	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06971	Vanadium	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
06972	Zinc	SOW ILM04.0	1	01/31/2006 08:11	Joanne M Gates	1
00383	TOC by Lloyd Kahn	Lloyd Kahn modified	1	02/02/2006 11:04	James S Mathiot	1
01353	Moisture	SOW OLM03.2	1	01/24/2006 16:56	Scott W Freisher	1
01441	pH	SOW OLM04.3	1	01/24/2006 18:30	Luz M Groff	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	01/25/2006 10:51	William L Hamaker Jr	1
05910	Total Cyanide CLP (solid)	SOW ILM04.0	1	01/27/2006 17:39	Venia B McFadden	1
07552	ORP Observed	ASTM D1498	1	01/30/2006 08:30	Michelle L Heidig	1
04562	OLM03.2	SOW OLM03.2	1	01/31/2006 18:02	Richard A Shober	1
Pesticides/PCBs/Soil						
04438	OLM03.2 Semivolatiles/Soil	SOW OLM03.2	1	02/07/2006 00:03	Linda M Hartenstine	1
07157	OLM03.2 Volatiles in Soils	SOW OLM03.2	1	01/26/2006 20:01	Jason M Long	0.87
00494	SW CLP Hg Digest	SOW ILM04.0	1	01/29/2006 23:15	Annamaria Stipkovits	1
01849	SW CLP ICP Digest	SOW ILM04.0	1	01/29/2006 20:50	Annamaria Stipkovits	1
04185	CLP Soil Extraction	SOW OLM03.2	1	01/25/2006 07:00	Danette S Cavalier	1
04607	CLP Soil Extraction	SOW OLM03.2	1	01/23/2006 05:00	Mark P Mastropietro	1
05909	CLP Cyanide Solid	SOW ILM04.0	1	01/25/2006 11:40	Choon Y Tian	1
Distillation						
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	01/20/2006 16:01	Justin M Bowers	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	01/24/2006 22:15	Daniel S Smith	1
08389	GC/MS - LL Encore Prep	SW-846 5035	1	01/20/2006 16:10	Justin M Bowers	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035	2	01/20/2006 16:11	Justin M Bowers	n.a.

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USEPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6020-

Lab Name: LANCASTER LABORATORIES Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: PNV88
 Matrix (soil/water): SOIL Lab Sample ID: 4692566
 Level (low/med): LOW Date Received: 01/20/06
 % Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG__

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11700			P
7440-36-0	Antimony	1.8	U	N	P
7440-38-2	Arsenic	12.5		N	P
7440-39-3	Barium	72.9			P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	21800			P
7440-47-3	Chromium	18.7			P
7440-48-4	Cobalt	13.8			P
7440-50-8	Copper	25.4			P
7439-89-6	Iron	32900			P
7439-92-1	Lead	15.9			P
7439-95-4	Magnesium	9030		*	P
7439-96-5	Manganese	362			P
7439-97-6	Mercury	0.021	U		CV
7440-02-0	Nickel	35.6			P
7440-09-7	Potassium	2110			P
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver	0.30	B		P
7440-23-5	Sodium	157	B		P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	16.5			P
7440-66-6	Zinc	79.8			P
57-12-5	Cyanide	0.22	U		CA

Color Before: BROWN

Clarity Before: _____

Texture: MEDIUM

Color After: YELLOW

Clarity After: _____

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

8838



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 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6020-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692566
 Sample wt/vol: 5.78 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s03.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 14 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/Kg Q

74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	14	
75-15-0	Carbon Disulfide	6	J
75-09-2	Methylene Chloride	2	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (Total)	2	U
78-93-3	2-Butanone	7	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	4	J
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	2	J

page 1 of 2

FORM I VOA

OLM03.0

8831



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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6020-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692566
 Sample wt/vol: 5.78 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s03.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 14 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL ug/Kg	Q
100-42-5-----	Styrene	1	U
75-25-2-----	Bromoform	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U

page 2 of 2

FORM I VOA

OLM03.0

8832



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 1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6020-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692566
 Sample wt/vol: 30 (g/mL) G Lab File ID: hb063.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec: 14 dec: Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
 Injection Volume: 2 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
108-95-2	Phenol	39	U	
111-44-4	bis(2-Chloroethyl)ether	39	U	
95-57-8	2-Chlorophenol	39	U	
541-73-1	1,3-Dichlorobenzene	39	U	
106-46-7	1,4-Dichlorobenzene	39	U	
95-50-1	1,2-Dichlorobenzene	39	U	
95-48-7	2-Methylphenol	39	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	39	U	
106-44-5	4-Methylphenol	39	U	
621-64-7	N-Nitroso-di-n-propylamine	39	U	
67-72-1	Hexachloroethane	39	U	
98-95-3	Nitrobenzene	39	U	
78-59-1	Isophorone	39	U	
88-75-5	2-Nitrophenol	39	U	
105-67-9	2,4-Dimethylphenol	78	U	
111-91-1	bis(2-Chloroethoxy)methane	39	U	
120-83-2	2,4-Dichlorophenol	39	U	
120-82-1	1,2,4-Trichlorobenzene	39	U	
91-20-3	Naphthalene	39	U	
106-47-8	4-Chloroaniline	160	U	
87-68-3	Hexachlorobutadiene	39	U	
59-50-7	4-Chloro-3-methylphenol	39	U	
91-57-6	2-Methylnaphthalene	39	U	
77-47-4	Hexachlorocyclopentadiene	78	U	
88-06-2	2,4,6-Trichlorophenol	39	U	
95-95-4	2,4,5-Trichlorophenol	39	U	
91-58-7	2-Chloronaphthalene	39	U	
88-74-4	2-Nitroaniline	39	U	
131-11-3	Dimethylphthalate	39	U	
606-20-2	2,6-Dinitrotoluene	39	U	

FORM I SV-1

OLM03.0

8833



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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6020-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692566
 Sample wt/vol: 30 (g/mL) G Lab File ID: hb063.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec: 14 dec: Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
 Injection Volume: 2 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
! 208-96-8-----	Acenaphthylene	!	39	! U
! 99-09-2-----	3-Nitroaniline	!	78	! U
! 83-32-9-----	Acenaphthene	!	39	! U
! 51-28-5-----	2,4-Dinitrophenol	!	190	! U
! 100-02-7-----	4-Nitrophenol	!	39	! U
! 132-64-9-----	Dibenzofuran	!	39	! U
! 121-14-2-----	2,4-Dinitrotoluene	!	39	! U
! 84-66-2-----	Diethylphthalate	!	39	! U
! 7005-72-3-----	4-Chlorophenyl-phenylether	!	39	! U
! 86-73-7-----	Fluorene	!	39	! U
! 100-01-6-----	4-Nitroaniline	!	78	! U
! 534-52-1-----	4,6-Dinitro-2-methylphenol	!	39	! U
! 86-30-6-----	N-Nitrosodiphenylamine	!	39	! U
! 101-55-3-----	4-Bromophenyl-phenylether	!	39	! U
! 118-74-1-----	Hexachlorobenzene	!	39	! U
! 87-86-5-----	Pentachlorophenol	!	190	! U
! 85-01-8-----	Phenanthrene	!	39	! U
! 120-12-7-----	Anthracene	!	39	! U
! 86-74-8-----	Carbazole	!	39	! U
! 84-74-2-----	Di-n-butylphthalate	!	78	! U
! 206-44-0-----	Fluoranthene	!	39	! U
! 129-00-0-----	Pyrene	!	39	! U
! 85-68-7-----	Butylbenzylphthalate	!	39	! U
! 91-94-1-----	3,3'-Dichlorobenzidine	!	78	! U
! 56-55-3-----	Benzo(a)anthracene	!	39	! U
! 117-81-7-----	bis(2-Ethylhexyl)phthalate	!	39	! U
! 218-01-9-----	Chrysene	!	39	! U
! 117-84-0-----	Di-n-octylphthalate	!	39	! U
! 205-99-2-----	Benzo(b)fluoranthene	!	39	! U
! 207-08-9-----	Benzo(k)fluoranthene	!	39	! U

FORM I SV-2

OLM03.0

0034



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 1C cont
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6020-

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692566

Sample wt/vol: 30 (g/mL) G

Lab File ID: hb063.d

Level: (low/med) LOW

Date Received: 01/20/06

% Moisture: not dec: 14 dec:

Date Extracted: 01/23/06

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/07/06

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
50-32-8-----	Benzo(a)pyrene	39	U	!
193-39-5-----	Indeno(1,2,3-cd)pyrene	39	U	!
53-70-3-----	Dibenz(a,h)anthracene	39	U	!
191-24-2-----	Benzo(g,h,i)perylene	39	U	!

FORM I SV-3

OLM03.0

8835



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 1D
 ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories

Contract:

6020-

Lab Code:

Case No.:

SAS No.:

SDG No.: PNV88

Matrix: (soil/water) SOIL

Lab Sample ID: 4692566

Sample wt/vol: 30 (g/mL) g

Lab File ID: 4D1353.55R

% Moisture: 14 decanted: (Y/N)N

Date Received: 01/20/06

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 01/25/06

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 01/31/06

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y pH: 8

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/kg Q

319-84-6	alpha-BHC	0.20	U
58-89-9	gamma-BHC (Lindane)	0.20	U
319-85-7	beta-BHC	0.20	U
319-86-8	delta-BHC	0.20	U
76-44-8	Heptachlor	0.20	U
309-00-2	Aldrin	0.20	U
1024-57-3	Heptachlor epoxide	0.20	U
5103-74-2	gamma-Chlordane	0.20	U
5103-71-9	alpha-Chlordane	0.20	U
72-55-9	4,4'-DDE	0.38	U
959-98-8	Endosulfan I	0.20	U
60-57-1	Dieldrin	0.38	U
72-20-8	Endrin	0.38	U
72-54-8	4,4'-DDD	0.51	U
33213-65-9	Endosulfan II	0.38	U
50-29-3	4,4'-DDT	0.38	U
7421-93-4	Endrin aldehyde	0.78	U
72-43-5	Methoxychlor	2.3	U
1031-07-8	Endosulfan sulfate	0.38	U
53494-70-5	Endrin ketone	0.38	U
12674-11-2	Aroclor-1016	17	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	30	U
53469-21-9	Aroclor-1242	10	U
12672-29-6	Aroclor-1248	6.9	U
11097-69-1	Aroclor-1254	10	U
11096-82-5	Aroclor-1260	9.3	U
8001-35-2	Toxaphene	20	U

FORM I

OLM03.0

0036



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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6020-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692566
 Sample wt/vol: 5.78 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s03.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec. 14 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

Number TICs found: 11

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.34	430	J
2.	Unknown	2.84	58	J
3. 109-66-0	Pentane	3.14	42	NJ
4.	Unknown alkane	4.40	13	J
5.	Unknown alkane	5.20	15	J
6.	Unknown hydrocarbon	6.11	7	J
7.	Unknown alicyclic	7.03	6	J
8.	Unknown hydrocarbon	8.58	8	J
9.	Unknown siloxane	10.33	6	J B
10.	Unknown	10.66	16	J
11.	Unknown siloxane	12.34	10	J B
12.				
13.				
14.				
15.				
16.				
17.				
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27.				
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29.				
30.				

page 1 of 1

FORM I VOA-TIC

OLM03.0

0037



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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: 16020-
Lab Code: LANCAS Case No.: SAS No.: SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: 4692566
Sample wt/vol: 30 (g/mL) g Lab File ID: hb063.d
Level: (low/med) LOW Date Received: 01/20/06
% Moisture: 14 Decanted: (Y/N) Date Extracted: 01/23/06
Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
Injection Volume: 2 (uL) Dilution Factor: 1
GPC Cleanup: Y pH: Extraction: Sonc

CONCENTRATION UNITS:

Number TICs found: 19 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	14.887	110	J
2.	Unknown	15.747	80	J
3.	Unknown	16.093	87	J
4.	Unknown	18.022	190	J
5.	Unknown	18.249	100	J
6.	Unknown	19.942	110	J
7.	Unknown	21.965	120	J
8.	Unknown	23.701	82	J
9.	Unknown	25.271	320	J B
10.	Unknown Carboxylic Acid	28.503	160	J
11.	Unknown	28.822	90	J
12.	Unknown	29.051	98	J
13.	Unknown Carboxylic Acid	30.516	200	J
14.	Unknown Carboxylic Acid	30.756	2300	J B
15.	Unknown	30.936	250	J
16.	Unknown	31.435	92	J
17.	Unknown	32.493	1600	J
18.	Unknown	47.370	1600	J
19.	Unknown	48.171	160	J
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

page 1 of 1

FORM I SV-1

OLM03.0

8838



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692567

TIE023:6014:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 09:15 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6014- SDG#: PNV88-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00383	TOC by Lloyd Kahn	n.a.	2,800.	600.	mg/kg	1
01353	Moisture	n.a.	12.5	0.50	%	1
01441	pH	n.a.	7.50	0.0100	Std. Units	1

The pH of the method blank (background soil) analyzed with the sample was 7.06.

The pH was performed on a 1:1 slurry (50 gm of sample and 50 ml of deionized water) after being tumbled for one hour.

05892	Hexavalent Chromium by IC	18540-29-9	N.D.	0.23	mg/kg	1
07552	ORP Observed	n.a.	118.	1.0	mV	1

The ORP reported is the observed potential of the platinum electrode used during the analysis.

07157 OLM03.2 Volatiles in Soils

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

07125 SVOA Library Search OLM03.2

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form. An "X" indicates an isomer of the listed compound.

07126 VOA Library - Search OLM03.2

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

8839

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692567

TIE023:6014:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 09:15 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6014- SDG#: PNV88-03

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00159	Mercury	SOW ILM04.0	1	01/30/2006 12:03		Damary Valentin	1
01643	Aluminum	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
01650	Calcium	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
01654	Iron	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
01657	Magnesium	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
01662	Potassium	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
01667	Sodium	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06925	Thallium	SOW ILM04.0	1	02/08/2006 13:00		Joanne M Gates	1
06935	Arsenic	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06936	Selenium	SOW ILM04.0	2	02/08/2006 13:00		Joanne M Gates	1
06944	Antimony	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06946	Barium	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06947	Beryllium	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06949	Cadmium	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06951	Chromium	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06952	Cobalt	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06953	Copper	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06955	Lead	SOW ILM04.0	2	02/08/2006 13:00		Joanne M Gates	1
06958	Manganese	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06961	Nickel	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06966	Silver	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06971	Vanadium	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
06972	Zinc	SOW ILM04.0	1	01/31/2006 08:16		Joanne M Gates	1
00383	TOC by Lloyd Kahn	Lloyd Kahn modified	1	02/02/2006 11:41		James S Mathiot	1
01353	Moisture	SOW OLM03.2	1	01/24/2006 16:56		Scott W Freisher	1
01441	pH	SOW OLM04.3	1	01/24/2006 18:30		Luz M Groff	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	01/25/2006 11:07		William L Hamaker Jr	1
05910	Total Cyanide CLP (solid)	SOW ILM04.0	1	01/27/2006 17:41		Venia B McFadden	1
07552	ORP Observed	ASTM D1498	1	01/30/2006 08:30		Michelle L Heidig	1
04562	OLM03.2	SOW OLM03.2	1	01/31/2006 18:32		Richard A Shober	1
	Pesticides/PCBs/Soil						
04438	OLM03.2 Semivolatiles/Soil	SOW OLM03.2	1	02/07/2006 01:05		Linda M Hartenstine	1
07157	OLM03.2 Volatiles in Soils	SOW OLM03.2	1	01/26/2006 20:27		Jason M Long	0.81
00494	SW CLP Hg Digest	SOW ILM04.0	1	01/29/2006 23:15		Annamaria Stipkovits	1
01849	SW CLP ICP Digest	SOW ILM04.0	1	01/29/2006 20:50		Annamaria Stipkovits	1
04185	CLP Soil Extraction	SOW OLM03.2	1	01/25/2006 07:00		Danette S Cavalier	1
04607	CLP Soil Extraction	SOW OLM03.2	1	01/23/2006 05:00		Mark P Mastropietro	1
05909	CLP Cyanide Solid	SOW ILM04.0	1	01/25/2006 11:40		Choon Y Tian	1
	Distillation						
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	01/20/2006 16:02		Justin M Bowers	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	01/24/2006 22:15		Daniel S Smith	1
08389	GC/MS - LL Encore Prep	SW-846 5035	1	01/20/2006 16:12		Justin M Bowers	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035	2	01/20/2006 16:13		Justin M Bowers	n.a.



USEPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6014-

Lab Name: LANCASTER LABORATORIES Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: PNV88
 Matrix (soil/water): SOIL Lab Sample ID: 4692567
 Level (low/med): LOW Date Received: 01/20/06
 % Solids: 87.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG__

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10600			P
7440-36-0	Antimony	1.7	U	N	P
7440-38-2	Arsenic	14.1		N	P
7440-39-3	Barium	57.8			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	23300			P
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt	12.8			P
7440-50-8	Copper	26.3			P
7439-89-6	Iron	32500			P
7439-92-1	Lead	16.3			P
7439-95-4	Magnesium	9360		*	P
7439-96-5	Manganese	367			P
7439-97-6	Mercury	0.022	U		CV
7440-02-0	Nickel	33.1			P
7440-09-7	Potassium	1960			P
7782-49-2	Selenium	0.97	U		P
7440-22-4	Silver	0.23	B		P
7440-23-5	Sodium	171	B		P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	15.6			P
7440-66-6	Zinc	86.8			P
57-12-5	Cyanide	0.22	U		CA

Color Before: BROWN

Clarity Before: _____

Texture: MEDIUM

Color After: YELLOW

Clarity After: _____

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

0841



Lancaster Laboratories, Inc.
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 717-656-2300 Fax: 717-656-2681


 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6014-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692567
 Sample wt/vol: 6.17 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s04.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 12 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) MDL ug/Kg Q

74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	7	J
75-09-2	Methylene Chloride	2	U
75-34-3	1,1-Dichloroethane	0.9	U
540-59-0	1,2-Dichloroethene (Total)	2	U
78-93-3	2-Butanone	6	U
67-66-3	Chloroform	0.9	U
71-55-6	1,1,1-Trichloroethane	0.9	U
56-23-5	Carbon Tetrachloride	0.9	U
71-43-2	Benzene	1	J
107-06-2	1,2-Dichloroethane	2	U
79-01-6	Trichloroethene	0.9	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	0.9	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	3	J
10061-02-6	trans-1,3-Dichloropropene	0.9	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	0.9	U
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	0.9	U
108-90-7	Chlorobenzene	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	Xylene (Total)	1	J

page 1 of 2

FORM I VOA

OLM03.0

0042



Lancaster Laboratories, Inc.
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 717-656-2300 Fax: 717-656-2681



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6014-

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692567

Sample wt/vol: 6.17 (g/mL) g

Lab File ID: HP07566.1/06jan26b.b/rj26s04.d

Level: (low/med) LOW

Date Received: 01/20/06

Moisture: not dec. 12

Date Analyzed: 01/26/06

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) MDL ug/Kg Q

100-42-5-----	Styrene	0.9	U
75-25-2-----	Bromoform	0.9	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.9	U

page 2 of 2

FORM I VOA

OLM03.0

0843



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681


 1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6014-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692567
 Sample wt/vol: 30 (g/mL) G Lab File ID: hb064.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec: 12 dec: Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
 Injection Volume: 2 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
108-95-2	Phenol	38	U	!
111-44-4	bis(2-Chloroethyl)ether	38	U	!
95-57-8	2-Chlorophenol	38	U	!
541-73-1	1,3-Dichlorobenzene	38	U	!
106-46-7	1,4-Dichlorobenzene	38	U	!
95-50-1	1,2-Dichlorobenzene	38	U	!
95-48-7	2-Methylphenol	38	U	!
108-60-1	2,2'-oxybis(1-Chloropropane)	38	U	!
106-44-5	4-Methylphenol	38	U	!
621-64-7	N-Nitroso-di-n-propylamine	38	U	!
67-72-1	Hexachloroethane	38	U	!
98-95-3	Nitrobenzene	38	U	!
78-59-1	Isophorone	38	U	!
88-75-5	2-Nitrophenol	38	U	!
105-67-9	2,4-Dimethylphenol	76	U	!
111-91-1	bis(2-Chloroethoxy)methane	38	U	!
120-83-2	2,4-Dichlorophenol	38	U	!
120-82-1	1,2,4-Trichlorobenzene	38	U	!
91-20-3	Naphthalene	38	U	!
106-47-8	4-Chloroaniline	150	U	!
87-68-3	Hexachlorobutadiene	38	U	!
59-50-7	4-Chloro-3-methylphenol	38	U	!
91-57-6	2-Methylnaphthalene	38	U	!
77-47-4	Hexachlorocyclopentadiene	76	U	!
88-06-2	2,4,6-Trichlorophenol	38	U	!
95-95-4	2,4,5-Trichlorophenol	38	U	!
91-58-7	2-Chloronaphthalene	38	U	!
88-74-4	2-Nitroaniline	38	U	!
131-11-3	Dimethylphthalate	38	U	!
606-20-2	2,6-Dinitrotoluene	38	U	!

FORM I SV-1

OLM03.0

8844



Lancaster Laboratories, Inc.
 2425 New Holland Pike
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 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692567

Sample wt/vol: 30 (g/mL) G

Lab File ID: hb064.d

Level: (low/med) LOW

Date Received: 01/20/06

% Moisture: not dec: 12 dec:

Date Extracted: 01/23/06

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/07/06

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Extraction: Sonic

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
208-96-8-----	Acenaphthylene	38	! U	!
99-09-2-----	3-Nitroaniline	76	! U	!
83-32-9-----	Acenaphthene	38	! U	!
51-28-5-----	2,4-Dinitrophenol	190	! U	!
100-02-7-----	4-Nitrophenol	38	! U	!
132-64-9-----	Dibenzofuran	38	! U	!
121-14-2-----	2,4-Dinitrotoluene	38	! U	!
84-66-2-----	Diethylphthalate	38	! U	!
7005-72-3-----	4-Chlorophenyl-phenylether	38	! U	!
86-73-7-----	Fluorene	38	! U	!
100-01-6-----	4-Nitroaniline	76	! U	!
534-52-1-----	4,6-Dinitro-2-methylphenol	38	! U	!
86-30-6-----	N-Nitrosodiphenylamine	38	! U	!
101-55-3-----	4-Bromophenyl-phenylether	38	! U	!
118-74-1-----	Hexachlorobenzene	38	! U	!
87-86-5-----	Pentachlorophenol	190	! U	!
85-01-8-----	Phenanthrene	38	! U	!
120-12-7-----	Anthracene	38	! U	!
86-74-8-----	Carbazole	38	! U	!
84-74-2-----	Di-n-butylphthalate	76	! U	!
206-44-0-----	Fluoranthene	38	! U	!
129-00-0-----	Pyrene	38	! U	!
85-68-7-----	Butylbenzylphthalate	38	! U	!
91-94-1-----	3,3'-Dichlorobenzidine	76	! U	!
56-55-3-----	Benzo(a)anthracene	38	! U	!
117-81-7-----	bis(2-Ethylhexyl)phthalate	38	! U	!
218-01-9-----	Chrysene	38	! U	!
117-84-0-----	Di-n-octylphthalate	38	! U	!
205-99-2-----	Benzo(b)fluoranthene	38	! U	!
207-08-9-----	Benzo(k)fluoranthene	38	! U	!

FORM I SV-2

OLM03.0

8845



Lancaster Laboratories, Inc.
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 717-656-2300 Fax: 717-656-2681



1C cont
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6014-

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692567

Sample wt/vol: 30 (g/mL) G

Lab File ID: hb064.d

Level: (low/med) LOW

Date Received: 01/20/06

% Moisture: not dec: 12 dec:

Date Extracted: 01/23/06

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/07/06

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
50-32-8-----	Benzo(a)pyrene	38	U	!
193-39-5-----	Indeno(1,2,3-cd)pyrene	38	U	!
53-70-3-----	Dibenz(a,h)anthracene	38	U	!
191-24-2-----	Benzo(g,h,i)perylene	38	U	!

FORM I SV-3

OLM03.0

0846



Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681


 ID
 ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories

Contract:

6014-

Lab Code:

Case No.:

SAS No.:

SDG No.: PNV88

Matrix: (soil/water) SOIL

Lab Sample ID: 4692567

Sample wt/vol: 30 (g/mL) g

Lab File ID: 4D1353.56R

% Moisture: 12 decanted: (Y/N)N

Date Received: 01/20/06

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 01/25/06

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 01/31/06

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y pH: 8

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/kg Q

! 319-84-6-----	alpha-BHC	! 0.19!U	!
! 58-89-9-----	gamma-BHC (Lindane)	! 0.19!U	!
! 319-85-7-----	beta-BHC	! 0.19!U	!
! 319-86-8-----	delta-BHC	! 0.19!U	!
! 76-44-8-----	Heptachlor	! 0.19!U	!
! 309-00-2-----	Aldrin	! 0.19!U	!
! 1024-57-3-----	Heptachlor epoxide	! 0.21!J	!
! 5103-74-2-----	gamma-Chlordane	! 0.19!U	!
! 5103-71-9-----	alpha-Chlordane	! 0.19!U	!
! 72-55-9-----	4,4'-DDE	! 0.38!U	!
! 959-98-8-----	Endosulfan I	! 0.19!U	!
! 60-57-1-----	Dieldrin	! 0.38!U	!
! 72-20-8-----	Endrin	! 0.38!U	!
! 72-54-8-----	4,4'-DDD	! 0.50!U	!
! 33213-65-9-----	Endosulfan II	! 0.38!U	!
! 50-29-3-----	4,4'-DDT	! 0.38!U	!
! 7421-93-4-----	Endrin aldehyde	! 0.76!U	!
! 72-43-5-----	Methoxychlor	! 2.3!U	!
! 1031-07-8-----	Endosulfan sulfate	! 0.38!U	!
! 53494-70-5-----	Endrin ketone	! 0.38!U	!
! 12674-11-2-----	Aroclor-1016	! 17!U	!
! 11104-28-2-----	Aroclor-1221	! 19!U	!
! 11141-16-5-----	Aroclor-1232	! 30!U	!
! 53469-21-9-----	Aroclor-1242	! 9.9!U	!
! 12672-29-6-----	Aroclor-1248	! 34!U	!
! 11097-69-1-----	Aroclor-1254	! 10!U	!
! 11096-82-5-----	Aroclor-1260	! 9.1!U	!
! 8001-35-2-----	Toxaphene	! 25!U	!

FORM I

OLM03.0

8847


 Lancaster Laboratories, Inc.
 2425 New Holland Pike
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 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6014-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692567
 Sample wt/vol: 6.17 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s04.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec. 12 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 10

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.34	270	J
2. 78-78-4	Butane, 2-methyl-	2.84	53	NJ
3. 109-66-0	Pentane	3.14	34	NJ
4.	Unknown alkane	4.38	10	J
5.	Unknown alkane	4.77	6	J
6. 110-54-3	Hexane	5.20	13	NJ
7.	Unknown alicyclic	6.11	6	J
8.	Unknown aliphatic	7.05	10	J
9. 108-87-2	Cyclohexane, methyl-	8.58	6	NJ
10.	Unknown siloxane	12.35	6	J B
11.				
12.				
13.				
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page 1 of 1

FORM I VOA-TIC

OLM03.0

8848



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! 6014- !

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692567
 Sample wt/vol: 30 (g/mL) g Lab File ID: hb064.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: 12 Decanted: (Y/N) Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
 Injection Volume: 2 (uL) Dilution Factor: 1
 GPC Cleanup: Y pH: _____ Extraction: Sonc

CONCENTRATION UNITS:

Number TICs found: 19 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	!Unknown	! 14.896 !	96	! J
2.	!Unknown	! 16.092 !	88	! J
3.	!Unknown	! 18.021 !	160	! J
4.	!Unknown	! 18.506 !	76	! J
5.	!Unknown	! 19.080 !	90	! J
6.	!Unknown	! 19.942 !	110	! J
7.	!Unknown	! 20.805 !	100	! J
8.	!Unknown	! 22.491 !	78	! J
9.	!Unknown	! 23.404 !	92	! J
10.	!Unknown	! 23.692 !	110	! J
11.	!Unknown	! 24.982 !	100	! J
12.	!Unknown	! 25.261 !	340	! J B
13.	!Unknown	! 26.424 !	110	! J
14.	!Unknown	! 27.579 !	91	! J
15.	!Unknown	! 28.504 !	100	! J
16.	!Unknown	! 30.508 !	94	! J
17.	!Unknown	! 30.748 !	350	! J
18.	!Unknown	! 32.484 !	200	! J B
19.	!Unknown	! 47.400 !	2000	! J
20.				
21.				
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page 1 of 1

FORM I SV-1

OLM03.0

8849



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692568

TIE023:6007:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 11:55 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6007- SDG#: PNV88-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00383	TOC by Lloyd Kahn The quantitation limit for total organic carbon was increased due to the nature of the sample matrix.	n.a.	N.D.	220.	mg/kg	1
01353	Moisture	n.a.	11.4	0.50	%	1
01441	pH The pH of the method blank (background soil) analyzed with the sample was 7.06. The pH was performed on a 1:1 slurry (50 gm of sample and 50 ml of deionized water) after being tumbled for one hour.	n.a.	7.57	0.0100	Std. Units	1
05892	Hexavalent Chromium by IC	18540-29-9	N.D.	0.23	mg/kg	1
07552	ORP Observed The ORP reported is the observed potential of the platinum electrode used during the analysis.	n.a.	120.	1.0	mV	1
07157	OLM03.2 Volatiles in Soils A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
07125	SVOA Library Search OLM03.2 The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form. An "X" indicates an isomer of the listed compound.					
07126	VOA Library - Search OLM03.2 The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.					

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0850



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692568

TIE023:6007:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 11:55 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006

Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6007- SDG#: PNV88-04

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SOW ILM04.0	1	01/30/2006 12:05	Damary Valentin	1
01643	Aluminum	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
01650	Calcium	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
01654	Iron	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
01657	Magnesium	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
01662	Potassium	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
01667	Sodium	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06925	Thallium	SOW ILM04.0	1	02/08/2006 13:13	Joanne M Gates	1
06935	Arsenic	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06936	Selenium	SOW ILM04.0	2	02/08/2006 13:13	Joanne M Gates	1
06944	Antimony	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06946	Barium	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06947	Beryllium	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06949	Cadmium	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06951	Chromium	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06952	Cobalt	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06953	Copper	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06955	Lead	SOW ILM04.0	2	02/08/2006 13:13	Joanne M Gates	1
06958	Manganese	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06961	Nickel	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06966	Silver	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06971	Vanadium	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
06972	Zinc	SOW ILM04.0	1	01/31/2006 08:30	Joanne M Gates	1
00383	TOC by Lloyd Kahn	Lloyd Kahn modified	1	02/02/2006 12:29	James S Mathiot	1
01353	Moisture	SOW OLM03.2	1	01/24/2006 16:56	Scott W Freisher	1
01441	pH	SOW OLM04.3	1	01/24/2006 18:30	Luz M Groff	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	01/25/2006 11:22	William L Hamaker Jr	1
05910	Total Cyanide CLP (solid)	SOW ILM04.0	1	01/27/2006 17:42	Venia B McFadden	1
07552	ORP Observed	ASTM D1498	1	01/30/2006 08:30	Michelle L Heidig	1
04562	OLM03.2	SOW OLM03.2	1	01/31/2006 19:02	Richard A Shober	1
	Pesticides/PCBs/Soil					
04438	OLM03.2 Semivolatiles/Soil	SOW OLM03.2	1	02/07/2006 02:08	Linda M Hartenstine	1
07157	OLM03.2 Volatiles in Soils	SOW OLM03.2	1	01/26/2006 20:54	Jason M Long	0.82
00494	SW CLP Hg Digest	SOW ILM04.0	1	01/29/2006 23:15	Annamaria Stipkovits	1
01849	SW CLP ICP Digest	SOW ILM04.0	1	01/29/2006 20:50	Annamaria Stipkovits	1
04185	CLP Soil Extraction	SOW OLM03.2	1	01/25/2006 07:00	Danette S Cavalier	1
04607	CLP Soil Extraction	SOW OLM03.2	1	01/23/2006 05:00	Mark P Mastropietro	1
05909	CLP Cyanide Solid	SOW ILM04.0	1	01/25/2006 11:40	Choon Y Tian	1
	Distillation					
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	01/20/2006 16:03	Justin M Bowers	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	01/24/2006 22:15	Daniel S Smith	1



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692568

TIE023:6007:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 11:55 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006

Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6007- SDG#: PNV88-04

08389	GC/MS - LL Encore Prep	SW-846 5035
08389	GC/MS - LL Encore Prep	SW-846 5035

1	01/20/2006 16:14	Justin M Bowers	n.a.
2	01/20/2006 16:15	Justin M Bowers	n.a.

8852



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



USEPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6007-

Lab Name: LANCASTER LABORATORIES Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: PNV88
 Matrix (soil/water): SOIL Lab Sample ID: 4692568
 Level (low/med): LOW Date Received: 01/20/06
 % Solids: 88.6
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700			P
7440-36-0	Antimony	1.7	U	N	P
7440-38-2	Arsenic	12.4		N	P
7440-39-3	Barium	71.2			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	23300			P
7440-47-3	Chromium	17.1			P
7440-48-4	Cobalt	12.8			P
7440-50-8	Copper	25.1			P
7439-89-6	Iron	30900			P
7439-92-1	Lead	14.9			P
7439-95-4	Magnesium	9180		*	P
7439-96-5	Manganese	369			P
7439-97-6	Mercury	0.022	U		CV
7440-02-0	Nickel	32.2			P
7440-09-7	Potassium	2020			P
7782-49-2	Selenium	0.96	U		P
7440-22-4	Silver	0.28	B		P
7440-23-5	Sodium	190	B		P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	15.2			P
7440-66-6	Zinc	73.0			P
57-12-5	Cyanide	0.22	U		CA

Color Before: BROWN

Clarity Before: _____

Texture: MEDIUM

Color After: YELLOW

Clarity After: _____

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

8853



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 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6007-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692568
 Sample wt/vol: 6.08 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s05.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 11 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MDL ug/Kg	Q
74-87-3	Chloromethane	2	U	!
75-01-4	Vinyl Chloride	2	U	!
74-83-9	Bromomethane	3	U	!
75-00-3	Chloroethane	3	U	!
75-35-4	1,1-Dichloroethene	2	U	!
67-64-1	Acetone	8	J	!
75-15-0	Carbon Disulfide	4	J	!
75-09-2	Methylene Chloride	2	U	!
75-34-3	1,1-Dichloroethane	0.9	U	!
540-59-0	1,2-Dichloroethene (Total)	2	U	!
78-93-3	2-Butanone	6	U	!
67-66-3	Chloroform	0.9	U	!
71-55-6	1,1,1-Trichloroethane	0.9	U	!
56-23-5	Carbon Tetrachloride	0.9	U	!
71-43-2	Benzene	0.9	U	!
107-06-2	1,2-Dichloroethane	2	U	!
79-01-6	Trichloroethene	0.9	U	!
78-87-5	1,2-Dichloropropane	3	U	!
75-27-4	Bromodichloromethane	2	U	!
10061-01-5	cis-1,3-Dichloropropene	0.9	U	!
108-10-1	4-Methyl-2-Pentanone	3	U	!
108-88-3	Toluene	2	J	!
10061-02-6	trans-1,3-Dichloropropene	0.9	U	!
79-00-5	1,1,2-Trichloroethane	2	U	!
127-18-4	Tetrachloroethene	0.9	U	!
591-78-6	2-Hexanone	3	U	!
124-48-1	Dibromochloromethane	0.9	U	!
108-90-7	Chlorobenzene	0.9	U	!
100-41-4	Ethylbenzene	0.9	U	!
1330-20-7	Xylene (Total)	0.9	U	!

page 1 of 2

FORM I VOA

OLM03.0

8854



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6007-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692568
 Sample wt/vol: 6.08 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s05.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 11 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/Kg Q

100-42-5	Styrene	0.9	U
75-25-2	Bromoform	0.9	U
79-34-5	1,1,2,2-Tetrachloroethane	0.9	U

page 2 of 2

FORM I VOA

OLM03.0

8855



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6007-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692568
 Sample wt/vol: 30 (g/mL) G Lab File ID: hb065.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec: 11 dec: Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
 Injection Volume: 2 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
108-95-2	Phenol	37	U	!
111-44-4	bis(2-Chloroethyl)ether	37	U	!
95-57-8	2-Chlorophenol	37	U	!
541-73-1	1,3-Dichlorobenzene	37	U	!
106-46-7	1,4-Dichlorobenzene	37	U	!
95-50-1	1,2-Dichlorobenzene	37	U	!
95-48-7	2-Methylphenol	37	U	!
108-60-1	2,2'-oxybis(1-Chloropropane)	37	U	!
106-44-5	4-Methylphenol	37	U	!
621-64-7	N-Nitroso-di-n-propylamine	37	U	!
67-72-1	Hexachloroethane	37	U	!
98-95-3	Nitrobenzene	37	U	!
78-59-1	Isophorone	37	U	!
88-75-5	2-Nitrophenol	37	U	!
105-67-9	2,4-Dimethylphenol	75	U	!
111-91-1	bis(2-Chloroethoxy)methane	37	U	!
120-83-2	2,4-Dichlorophenol	37	U	!
120-82-1	1,2,4-Trichlorobenzene	37	U	!
91-20-3	Naphthalene	37	U	!
106-47-8	4-Chloroaniline	150	U	!
87-68-3	Hexachlorobutadiene	37	U	!
59-50-7	4-Chloro-3-methylphenol	37	U	!
91-57-6	2-Methylnaphthalene	37	U	!
77-47-4	Hexachlorocyclopentadiene	75	U	!
88-06-2	2,4,6-Trichlorophenol	37	U	!
95-95-4	2,4,5-Trichlorophenol	37	U	!
91-58-7	2-Chloronaphthalene	37	U	!
88-74-4	2-Nitroaniline	37	U	!
131-11-3	Dimethylphthalate	37	U	!
606-20-2	2,6-Dinitrotoluene	37	U	!

FORM I SV-1

OLM03.0

0056



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6007-

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692568

Sample wt/vol: 30 (g/mL) G

Lab File ID: hb065.d

Level: (low/med) LOW

Date Received: 01/20/06

% Moisture: not dec: 11 dec:

Date Extracted: 01/23/06

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/07/06

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
208-96-8	Acenaphthylene	37	U	!
99-09-2	3-Nitroaniline	75	U	!
83-32-9	Acenaphthene	37	U	!
51-28-5	2,4-Dinitrophenol	190	U	!
100-02-7	4-Nitrophenol	37	U	!
132-64-9	Dibenzofuran	37	U	!
121-14-2	2,4-Dinitrotoluene	37	U	!
84-66-2	Diethylphthalate	37	U	!
7005-72-3	4-Chlorophenyl-phenylether	37	U	!
86-73-7	Fluorene	37	U	!
100-01-6	4-Nitroaniline	75	U	!
534-52-1	4,6-Dinitro-2-methylphenol	37	U	!
86-30-6	N-Nitrosodiphenylamine	37	U	!
101-55-3	4-Bromophenyl-phenylether	37	U	!
118-74-1	Hexachlorobenzene	37	U	!
87-86-5	Pentachlorophenol	190	U	!
85-01-8	Phenanthrene	44	J	!
120-12-7	Anthracene	37	U	!
86-74-8	Carbazole	37	U	!
84-74-2	Di-n-butylphthalate	75	U	!
206-44-0	Fluoranthene	37	U	!
129-00-0	Pyrene	37	U	!
85-68-7	Butylbenzylphthalate	37	U	!
91-94-1	3,3'-Dichlorobenzidine	75	U	!
56-55-3	Benzo(a)anthracene	37	U	!
117-81-7	bis(2-Ethylhexyl)phthalate	37	U	!
218-01-9	Chrysene	37	U	!
117-84-0	Di-n-octylphthalate	37	U	!
205-99-2	Benzo(b)fluoranthene	37	U	!
207-08-9	Benzo(k)fluoranthene	37	U	!

FORM I SV-2

OLM03.0

0057


 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1C cont
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6007-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692568
 Sample wt/vol: 30 (g/mL) G Lab File ID: hb065.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec: 11 dec: Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
 Injection Volume: 2 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MDL	UG/KG	Q
50-32-8-----	Benzo(a)pyrene	37	!	U	!
193-39-5-----	Indeno(1,2,3-cd)pyrene	37	!	U	!
53-70-3-----	Dibenz(a,h)anthracene	37	!	U	!
191-24-2-----	Benzo(g,h,i)perylene	37	!	U	!

FORM I SV-3

OLM03.0

8858



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1D
 ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories

Contract:

6007-

Lab Code: Case No.: SAS No.: SDG No.: PNV88
 Matrix: (soil/water) SOIL Lab Sample ID: 4692568
 Sample wt/vol: 30 (g/mL) g Lab File ID: 4D1353.57R
 % Moisture: 11 decanted: (Y/N)N Date Received: 01/20/06
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/25/06
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/31/06
 Injection Volume: 1 (uL) Dilution Factor: 1
 GPC Cleanup: (Y/N) Y pH: 8 Sulfur Cleanup: (Y/N) N

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL ug/kg	Q
319-84-6	alpha-BHC	0.19!U	!
58-89-9	gamma-BHC (Lindane)	0.19!U	!
319-85-7	beta-BHC	0.27!JP	!
319-86-8	delta-BHC	0.19!U	!
76-44-8	Heptachlor	0.19!U	!
309-00-2	Aldrin	0.19!U	!
1024-57-3	Heptachlor epoxide	0.19!U	!
5103-74-2	gamma-Chlordane	0.19!U	!
5103-71-9	alpha-Chlordane	0.19!U	!
72-55-9	4,4'-DDE	0.37!U	!
959-98-8	Endosulfan I	0.19!U	!
60-57-1	Dieldrin	0.37!U	!
72-20-8	Endrin	0.37!U	!
72-54-8	4,4'-DDD	0.49!U	!
33213-65-9	Endosulfan II	0.37!U	!
50-29-3	4,4'-DDT	0.37!U	!
7421-93-4	Endrin aldehyde	0.75!U	!
72-43-5	Methoxychlor	2.2!U	!
1031-07-8	Endosulfan sulfate	0.37!U	!
53494-70-5	Endrin ketone	0.37!U	!
12674-11-2	Aroclor-1016	26!U	!
11104-28-2	Aroclor-1221	19!U	!
11141-16-5	Aroclor-1232	39!U	!
53469-21-9	Aroclor-1242	9.8!U	!
12672-29-6	Aroclor-1248	27!U	!
11097-69-1	Aroclor-1254	10!U	!
11096-82-5	Aroclor-1260	9.0!U	!
8001-35-2	Toxaphene	19!U	!

FORM I

OLM03.0

8859



Lancaster Laboratories, Inc.
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 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6007-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692568
 Sample wt/vol: 6.08 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s05.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec. 11 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

Number TICs found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.34	290	J
2. 78-78-4	Butane, 2-methyl-	2.85	34	NJ
3. 109-66-0	Pentane	3.14	26	NJ
4. 107-83-5	Pentane, 2-methyl-	4.40	11	NJ
5.	Unknown aliphatic	4.79	6	J
6. 110-54-3	Hexane	5.20	10	NJ
7. 96-37-7	Cyclopentane, methyl-	6.10	5	NJ
8. 110-82-7	Cyclohexane	7.04	7	NJ
9.	Unknown siloxane	12.34	6	J B
10.				
11.				
12.				
13.				
14.				
15.				
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30.				

page 1 of 1

FORM I VOA-TIC

OLM03.0

0060



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

16007-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692568
 Sample wt/vol: 30 (g/mL) g Lab File ID: hb065.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: 11 Decanted: (Y/N) Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
 Injection Volume: 2 (uL) Dilution Factor: 1
 GPC Cleanup: Y pH: _____ Extraction: Sonc

CONCENTRATION UNITS:

Number TICs found: 24 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Naphthalene, decahydro-, cis	14.552	83	J X
2.	Unknown	14.889	120	J
3.	Naphthalene, decahydro-2-met	15.739	86	J X
4.	Unknown	16.095	100	J
5.	Unknown	18.025	180	J
6.	Unknown	19.075	110	J
7.	Unknown	19.550	76	J
8.	Unknown	19.758	79	J
9.	Unknown	19.937	160	J
10.	Unknown	20.810	120	J
11.	Unknown	20.880	99	J
12.	Unknown	21.952	88	J
13.	Unknown	23.054	78	J
14.	Unknown	23.689	95	J
15.	Unknown	24.981	76	J
16.	Unknown	25.270	280	J B
17.	Unknown	26.424	110	J
18.	Unknown	27.579	110	J
19.	Unknown	28.505	120	J
20.	Unknown	28.604	76	J
21.	Unknown	30.519	100	J
22.	Unknown Carboxylic Acid	30.748	180	J B
23.	Unknown	32.485	90	J B
24.	Unknown	47.382	1800	J
25.				
26.				
27.				
28.				
29.				
30.				

page 1 of 1

FORM I SV-1

OLM03.0

0061



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692569

TIE023:6024:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 09:45 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6024- SDG#: PNV88-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00383	TOC by Lloyd Kahn The quantitation limit for total organic carbon was increased due to the nature of the sample matrix.	n.a.	N.D.	230.	mg/kg	1
01353	Moisture	n.a.	13.7	0.50	%	1
01441	pH The pH of the method blank (background soil) analyzed with the sample was 7.06. The pH was performed on a 1:1 slurry (50 gm of sample and 50 ml of deionized water) after being tumbled for one hour.	n.a.	7.75	0.0100	Std. Units	1
05892	Hexavalent Chromium by IC	18540-29-9	0.37 J	0.23	mg/kg	1
07552	ORP Observed The ORP reported is the observed potential of the platinum electrode used during the analysis.	n.a.	116.	1.0	mV	1
07157	OLM03.2 Volatiles in Soils A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
07125	SVOA Library Search OLM03.2 The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form. An "X" indicates an isomer of the listed compound.					
07126	VOA Library - Search OLM03.2 The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.					

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0062



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692569

TIE023:6024:S010030 Soil Sample
Painesville, OH

Collected:01/19/2006 09:45 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6024- SDG#: PNV88-05

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SOW ILM04.0	1	01/30/2006 12:07	Damary Valentin	1
01643	Aluminum	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
01650	Calcium	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
01654	Iron	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
01657	Magnesium	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
01662	Potassium	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
01667	Sodium	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06925	Thallium	SOW ILM04.0	1	02/08/2006 13:17	Joanne M Gates	1
06935	Arsenic	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06936	Selenium	SOW ILM04.0	2	02/08/2006 13:17	Joanne M Gates	1
06944	Antimony	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06946	Barium	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06947	Beryllium	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06949	Cadmium	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06951	Chromium	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06952	Cobalt	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06953	Copper	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06955	Lead	SOW ILM04.0	2	02/08/2006 13:17	Joanne M Gates	1
06958	Manganese	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06961	Nickel	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06966	Silver	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06971	Vanadium	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
06972	Zinc	SOW ILM04.0	1	01/31/2006 08:34	Joanne M Gates	1
00383	TOC by Lloyd Kahn	Lloyd Kahn modified	1	02/02/2006 12:38	James S Mathiot	1
01353	Moisture	SOW OLM03.2	1	01/24/2006 16:56	Scott W Freisher	1
01441	pH	SOW OLM04.3	1	01/24/2006 18:30	Luz M Groff	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	01/25/2006 13:55	William L Hamaker Jr	1
05910	Total Cyanide CLP (solid)	SOW ILM04.0	1	01/27/2006 17:43	Venia B McFadden	1
07552	ORP Observed	ASTM D1498	1	01/30/2006 08:30	Michelle L Heidig	1
04562	OLM03.2	SOW OLM03.2	1	01/31/2006 19:32	Richard A Shober	1
	Pesticides/PCBs/Soil					
04438	OLM03.2 Semivolatiles/Soil	SOW OLM03.2	1	02/07/2006 03:11	Linda M Hartenstine	1
07157	OLM03.2 Volatiles in Soils	SOW OLM03.2	1	01/26/2006 21:21	Jason M Long	0.84
00494	SW CLP Hg Digest	SOW ILM04.0	1	01/29/2006 23:15	Annamaria Stipkovits	1
01849	SW CLP ICP Digest	SOW ILM04.0	1	01/29/2006 20:50	Annamaria Stipkovits	1
04185	CLP Soil Extraction	SOW OLM03.2	1	01/25/2006 07:00	Danette S Cavalier	1
04607	CLP Soil Extraction	SOW OLM03.2	1	01/23/2006 05:00	Mark P Mastropietro	1
05909	CLP Cyanide Solid	SOW ILM04.0	1	01/25/2006 11:40	Choon Y Tian	1
	Distillation					
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	01/20/2006 16:04	Justin M Bowers	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	01/24/2006 22:15	Daniel S Bowers	1

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692569

TIE023:6024:S010030 Soil Sample
Painesville, OH

Collected: 01/19/2006 09:45 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006

Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6024- SDG#: PNV88-05

08389	GC/MS - LL Encore Prep	SW-846 5035
08389	GC/MS - LL Encore Prep	SW-846 5035

1	01/20/2006 16:16	Justin M Bowers	n.a.
2	01/20/2006 16:17	Justin M Bowers	n.a.

0064



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



USEPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6024-

Lab Name: LANCASTER LABORATORIES Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: PNV88
 Matrix (soil/water): SOIL Lab Sample ID: 4692569
 Level (low/med): LOW Date Received: 01/20/06
 % Solids: 86.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG__

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			P
7440-36-0	Antimony	1.7	U	N	P
7440-38-2	Arsenic	16.2		N	P
7440-39-3	Barium	56.3			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	23500			P
7440-47-3	Chromium	17.9			P
7440-48-4	Cobalt	15.5			P
7440-50-8	Copper	29.1			P
7439-89-6	Iron	34900			P
7439-92-1	Lead	17.5			P
7439-95-4	Magnesium	10400		*	P
7439-96-5	Manganese	393			P
7439-97-6	Mercury	0.022	U		CV
7440-02-0	Nickel	36.4			P
7440-09-7	Potassium	1990			P
7782-49-2	Selenium	0.99	U		P
7440-22-4	Silver	0.32	B		P
7440-23-5	Sodium	247	B		P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	16.3			P
7440-66-6	Zinc	75.7			P
57-12-5	Cyanide	0.22	U		CA

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM
 Color After: YELLOW Clarity After: _____ Artifacts: _____
 Comments: _____

FORM I - IN

ILM04.0

0865



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6024-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692569
 Sample wt/vol: 5.94 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s06.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 14 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) MDL ug/Kg Q

74-87-3-----	Chloromethane	2	U
75-01-4-----	Vinyl Chloride	2	U
74-83-9-----	Bromomethane	3	U
75-00-3-----	Chloroethane	3	U
75-35-4-----	1,1-Dichloroethene	2	U
67-64-1-----	Acetone	8	J
75-15-0-----	Carbon Disulfide	3	J
75-09-2-----	Methylene Chloride	2	U
75-34-3-----	1,1-Dichloroethane	1	U
540-59-0-----	1,2-Dichloroethene (Total)	2	U
78-93-3-----	2-Butanone	7	U
67-66-3-----	Chloroform	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	1	U
71-43-2-----	Benzene	1	U
107-06-2-----	1,2-Dichloroethane	2	U
79-01-6-----	Trichloroethene	1	U
78-87-5-----	1,2-Dichloropropane	3	U
75-27-4-----	Bromodichloromethane	2	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
108-10-1-----	4-Methyl-2-Pentanone	3	U
108-88-3-----	Toluene	1	J
10061-02-6-----	trans-1,3-Dichloropropene	1	U
79-00-5-----	1,1,2-Trichloroethane	2	U
127-18-4-----	Tetrachloroethene	1	U
591-78-6-----	2-Hexanone	3	U
124-48-1-----	Dibromochloromethane	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
1330-20-7-----	Xylene (Total)	1	U

page 1 of 2

FORM I VOA

OLM03.0

8866



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6024-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692569
 Sample wt/vol: 5.94 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s06.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 14 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/Kg Q

100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

page 2 of 2

FORM I VOA

OLM03.0

8867



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6024-

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692569

Sample wt/vol: 30 (g/mL) G

Lab File ID: hb066.d

Level: (low/med) LOW

Date Received: 01/20/06

% Moisture: not dec: 14 dec:

Date Extracted: 01/23/06

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/07/06

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
108-95-2	Phenol	39	U	
111-44-4	bis(2-Chloroethyl)ether	39	U	
95-57-8	2-Chlorophenol	39	U	
541-73-1	1,3-Dichlorobenzene	39	U	
106-46-7	1,4-Dichlorobenzene	39	U	
95-50-1	1,2-Dichlorobenzene	39	U	
95-48-7	2-Methylphenol	39	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	39	U	
106-44-5	4-Methylphenol	39	U	
621-64-7	N-Nitroso-di-n-propylamine	39	U	
67-72-1	Hexachloroethane	39	U	
98-95-3	Nitrobenzene	39	U	
78-59-1	Isophorone	39	U	
88-75-5	2-Nitrophenol	39	U	
105-67-9	2,4-Dimethylphenol	78	U	
111-91-1	bis(2-Chloroethoxy)methane	39	U	
120-83-2	2,4-Dichlorophenol	39	U	
120-82-1	1,2,4-Trichlorobenzene	39	U	
91-20-3	Naphthalene	39	U	
106-47-8	4-Chloroaniline	160	U	
87-68-3	Hexachlorobutadiene	39	U	
59-50-7	4-Chloro-3-methylphenol	39	U	
91-57-6	2-Methylnaphthalene	39	U	
77-47-4	Hexachlorocyclopentadiene	78	U	
88-06-2	2,4,6-Trichlorophenol	39	U	
95-95-4	2,4,5-Trichlorophenol	39	U	
91-58-7	2-Chloronaphthalene	39	U	
88-74-4	2-Nitroaniline	39	U	
131-11-3	Dimethylphthalate	39	U	
606-20-2	2,6-Dinitrotoluene	39	U	

FORM I SV-1

OLM03.0

8868


 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6024-

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692569

Sample wt/vol: 30 (g/mL) G

Lab File ID: hb066.d

Level: (low/med) LOW

Date Received: 01/20/06

% Moisture: not dec: 14 dec:

Date Extracted: 01/23/06

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/07/06

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MDL	UG/KG	Q
208-96-8	Acenaphthylene	39	!	U	!
99-09-2	3-Nitroaniline	78	!	U	!
83-32-9	Acenaphthene	39	!	U	!
51-28-5	2,4-Dinitrophenol	190	!	U	!
100-02-7	4-Nitrophenol	39	!	U	!
132-64-9	Dibenzofuran	39	!	U	!
121-14-2	2,4-Dinitrotoluene	39	!	U	!
84-66-2	Diethylphthalate	39	!	U	!
7005-72-3	4-Chlorophenyl-phenylether	39	!	U	!
86-73-7	Fluorene	39	!	U	!
100-01-6	4-Nitroaniline	78	!	U	!
534-52-1	4,6-Dinitro-2-methylphenol	39	!	U	!
86-30-6	N-Nitrosodiphenylamine	39	!	U	!
101-55-3	4-Bromophenyl-phenylether	39	!	U	!
118-74-1	Hexachlorobenzene	39	!	U	!
87-86-5	Pentachlorophenol	190	!	U	!
85-01-8	Phenanthrene	39	!	U	!
120-12-7	Anthracene	39	!	U	!
86-74-8	Carbazole	39	!	U	!
84-74-2	Di-n-butylphthalate	78	!	U	!
206-44-0	Fluoranthene	39	!	U	!
129-00-0	Pyrene	39	!	U	!
85-68-7	Butylbenzylphthalate	39	!	U	!
91-94-1	3,3'-Dichlorobenzidine	78	!	U	!
56-55-3	Benzo(a)anthracene	39	!	U	!
117-81-7	bis(2-Ethylhexyl)phthalate	39	!	U	!
218-01-9	Chrysene	39	!	U	!
117-84-0	Di-n-octylphthalate	39	!	U	!
205-99-2	Benzo(b)fluoranthene	39	!	U	!
207-08-9	Benzo(k)fluoranthene	39	!	U	!

FORM I SV-2

OLM03.0

2269


 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1C cont
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

! !
! 6024- !
! !

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692569

Sample wt/vol: 30 (g/mL) G

Lab File ID: hb066.d

Level: (low/med) LOW

Date Received: 01/20/06

% Moisture: not dec: 14 dec:

Date Extracted: 01/23/06

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/07/06

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
50-32-8-----	Benzo(a)pyrene	39	! U	!
193-39-5-----	Indeno(1,2,3-cd)pyrene	39	! U	!
53-70-3-----	Dibenz(a,h)anthracene	39	! U	!
191-24-2-----	Benzo(g,h,i)perylene	39	! U	!

FORM I SV-3

OLM03.0

0070



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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681


 1D
 ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories

Contract:

6024-

Lab Code: Case No.: SAS No.: SDG No.: PNV88
 Matrix: (soil/water) SOIL Lab Sample ID: 4692569
 Sample wt/vol: 30 (g/mL) g Lab File ID: 4D1353.58R
 % Moisture: 14 decanted: (Y/N)N Date Received: 01/20/06
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/25/06
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/31/06
 Injection Volume: 1 (uL) Dilution Factor: 1
 GPC Cleanup: (Y/N) Y pH: 8 Sulfur Cleanup: (Y/N) N

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL ug/kg	Q
319-84-6	alpha-BHC	0.20	U
58-89-9	gamma-BHC (Lindane)	0.20	U
319-85-7	beta-BHC	0.23	JP
319-86-8	delta-BHC	0.20	U
76-44-8	Heptachlor	0.20	U
309-00-2	Aldrin	0.20	U
1024-57-3	Heptachlor epoxide	0.20	U
5103-74-2	gamma-Chlordane	0.20	U
5103-71-9	alpha-Chlordane	0.20	U
72-55-9	4,4'-DDE	0.38	U
959-98-8	Endosulfan I	0.20	U
60-57-1	Dieldrin	0.38	U
72-20-8	Endrin	0.38	U
72-54-8	4,4'-DDD	0.51	U
33213-65-9	Endosulfan II	0.38	U
50-29-3	4,4'-DDT	0.38	U
7421-93-4	Endrin aldehyde	0.78	U
72-43-5	Methoxychlor	2.3	U
1031-07-8	Endosulfan sulfate	0.38	U
53494-70-5	Endrin ketone	0.38	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	50	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	29	U
11097-69-1	Aroclor-1254	10	U
11096-82-5	Aroclor-1260	9.3	U
8001-35-2	Toxaphene	20	U

FORM I

OLM03.0

0071



Lancaster Laboratories, Inc.
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 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6024-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692569
 Sample wt/vol: 5.94 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s06.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec. 14 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.34	160	J
2. 78-78-4	Butane, 2-methyl-	2.86	30	NJ
3. 109-66-0	Pentane	3.14	20	NJ
4. 107-83-5	Pentane, 2-methyl-	4.39	10	NJ
5. 110-54-3	Hexane	5.20	8	NJ
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page 1 of 1

FORM I VOA-TIC

OLM03.0

0022



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract:
Lab Code: LANCAS Case No.: SAS No.: SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: 4692569
Sample wt/vol: 30 (g/mL) g Lab File ID: hb066.d
Level: (low/med) LOW Date Received: 01/20/06
% Moisture: 14 Decanted: (Y/N) Date Extracted: 01/23/06
Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
Injection Volume: 2 (uL) Dilution Factor: 1
GPC Cleanup: Y pH: Extraction: Sonic

CONCENTRATION UNITS:

Number TICs found: 9 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	18.014	120	J
2.	Unknown	25.264	310	J B
3.	Unknown	28.509	110	J
4.	Unknown	30.517	140	J
5.	Unknown Carboxylic Acid	30.756	470	J B
6.	Unknown	30.935	140	J
7.	Unknown	32.487	330	J B
8.	Unknown	32.666	95	J
9.	Unknown	47.368	2500	J
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page 1 of 1

FORM I SV-1

OLM03.0

8873



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692570

TIE023:6028:S010050 Soil Sample
Painesville, OH

Collected: 01/19/2006 10:25 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6028- SDG#: PNV88-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00383	TOC by Lloyd Kahn The quantitation limit for total organic carbon was increased due to the nature of the sample matrix.	n.a.	N.D.	260.	mg/kg	1
01353	Moisture	n.a.	13.3	0.50	%	1
01441	pH The pH of the method blank (background soil) analyzed with the sample was 7.06. The pH was performed on a 1:1 slurry (50 gm of sample and 50 ml of deionized water) after being tumbled for one hour.	n.a.	7.53	0.0100	Std. Units	1
05892	Hexavalent Chromium by IC	18540-29-9	N.D.	0.23	mg/kg	1
07552	ORP Observed The ORP reported is the observed potential of the platinum electrode used during the analysis.	n.a.	120.	1.0	mV	1
07157	OLM03.2 Volatiles in Soils A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
07125	SVOA Library Search OLM03.2 The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form. An "X" indicates an isomer of the listed compound.					
07126	VOA Library - Search OLM03.2 The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.					

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0074



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692570

TIE023:6028:S010050 Soil Sample
Painesville, OH

Collected: 01/19/2006 10:25 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6028- SDG#: PNV88-06

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SOW ILM04.0	1	01/30/2006 12:08	Damary Valentin	1
01643	Aluminum	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
01650	Calcium	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
01654	Iron	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
01657	Magnesium	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
01662	Potassium	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
01667	Sodium	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06925	Thallium	SOW ILM04.0	2	02/08/2006 13:21	Joanne M Gates	1
06935	Arsenic	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06936	Selenium	SOW ILM04.0	2	02/08/2006 13:21	Joanne M Gates	1
06944	Antimony	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06946	Barium	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06947	Beryllium	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06949	Cadmium	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06951	Chromium	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06952	Cobalt	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06953	Copper	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06955	Lead	SOW ILM04.0	2	02/08/2006 13:21	Joanne M Gates	1
06958	Manganese	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06961	Nickel	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06966	Silver	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06971	Vanadium	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
06972	Zinc	SOW ILM04.0	1	01/31/2006 08:39	Joanne M Gates	1
00383	TOC by Lloyd Kahn	Lloyd Kahn modified	1	02/02/2006 13:04	James S Mathiot	1
01353	Moisture	SOW OLM03.2	1	01/24/2006 16:56	Scott W Freisher	1
01441	pH	SOW OLM04.3	1	01/24/2006 18:30	Luz M Groff	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	01/25/2006 14:03	William L Hamaker Jr	1
05910	Total Cyanide CLP (solid)	SOW ILM04.0	1	01/27/2006 17:44	Venia B McFadden	1
07552	ORP Observed	ASTM D1498	1	01/30/2006 08:30	Michelle L Heidig	1
04562	OLM03.2	SOW OLM03.2	1	01/31/2006 20:02	Richard A Shober	1
	Pesticides/PCBs/Soil					
04438	OLM03.2 Semivolatiles/Soil	SOW OLM03.2	1	02/07/2006 04:13	Linda M Hartenstine	1
07157	OLM03.2 Volatiles in Soils	SOW OLM03.2	1	01/26/2006 21:48	Jason M Long	0.93
00494	SW CLP Hg Digest	SOW ILM04.0	1	01/29/2006 23:15	Annamaria Stipkovits	1
01849	SW CLP ICP Digest	SOW ILM04.0	1	01/29/2006 20:50	Annamaria Stipkovits	1
04185	CLP Soil Extraction	SOW OLM03.2	1	01/25/2006 07:00	Danette S Cavalier	1
04607	CLP Soil Extraction	SOW OLM03.2	1	01/23/2006 05:00	Mark P Mastropietro	1
05909	CLP Cyanide Solid	SOW ILM04.0	1	01/25/2006 11:40	Choon Y Tian	1
	Distillation					
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	01/20/2006 16:05	Justin M Bowers	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	01/24/2006 22:15	Daniel S Smith	1

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692570

TIE023:6028:S010050 Soil Sample
Painesville, OH

Collected: 01/19/2006 10:25 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006

Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6028- SDG#: PNV88-06

08389 GC/MS - LL Encore Prep

SW-846 5035

1 01/20/2006 16:18

Justin M Bowers

n.a.

08389 GC/MS - LL Encore Prep

SW-846 5035

2 01/20/2006 16:19

Justin M Bowers

n.a.

0076



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



USEPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6028-

Lab Name: LANCASTER LABORATORIES Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: PNV88
 Matrix (soil/water): SOIL Lab Sample ID: 4692570
 Level (low/med): LOW Date Received: 01/20/06
 % Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700			P
7440-36-0	Antimony	1.7	U	N	P
7440-38-2	Arsenic	15.8		N	P
7440-39-3	Barium	52.8			P
7440-41-7	Beryllium	0.53	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	26800			P
7440-47-3	Chromium	17.5			P
7440-48-4	Cobalt	13.4			P
7440-50-8	Copper	27.4			P
7439-89-6	Iron	32800			P
7439-92-1	Lead	15.7			P
7439-95-4	Magnesium	11100		*	P
7439-96-5	Manganese	391			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	33.8			P
7440-09-7	Potassium	1900			P
7782-49-2	Selenium	0.99	U		P
7440-22-4	Silver	0.31	B		P
7440-23-5	Sodium	191	B		P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	16.3			P
7440-66-6	Zinc	74.5			P
57-12-5	Cyanide	0.22	U		CA

Color Before: BROWN

Clarity Before: _____

Texture: MEDIUM

Color After: YELLOW

Clarity After: _____

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

8877



Lancaster Laboratories, Inc.
 2425 New Holland Pike
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 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6028-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692570
 Sample wt/vol: 5.36 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s07.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 13 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL ug/Kg	Q
! 74-87-3-----	Chloromethane	2 ! U	!
! 75-01-4-----	Vinyl Chloride	2 ! U	!
! 74-83-9-----	Bromomethane	3 ! U	!
! 75-00-3-----	Chloroethane	3 ! U	!
! 75-35-4-----	1,1-Dichloroethene	2 ! U	!
! 67-64-1-----	Acetone	16 !	!
! 75-15-0-----	Carbon Disulfide	3 ! U	!
! 75-09-2-----	Methylene Chloride	2 ! U	!
! 75-34-3-----	1,1-Dichloroethane	1 ! U	!
! 540-59-0-----	1,2-Dichloroethene (Total)	2 ! U	!
! 78-93-3-----	2-Butanone	7 ! U	!
! 67-66-3-----	Chloroform	1 ! U	!
! 71-55-6-----	1,1,1-Trichloroethane	1 ! U	!
! 56-23-5-----	Carbon Tetrachloride	1 ! U	!
! 71-43-2-----	Benzene	1 ! J	!
! 107-06-2-----	1,2-Dichloroethane	2 ! U	!
! 79-01-6-----	Trichloroethene	1 ! U	!
! 78-87-5-----	1,2-Dichloropropane	3 ! U	!
! 75-27-4-----	Bromodichloromethane	2 ! U	!
! 10061-01-5-----	cis-1,3-Dichloropropene	1 ! U	!
! 108-10-1-----	4-Methyl-2-Pentanone	3 ! U	!
! 108-88-3-----	Toluene	2 ! J	!
! 10061-02-6-----	trans-1,3-Dichloropropene	1 ! U	!
! 79-00-5-----	1,1,2-Trichloroethane	2 ! U	!
! 127-18-4-----	Tetrachloroethene	1 ! U	!
! 591-78-6-----	2-Hexanone	3 ! U	!
! 124-48-1-----	Dibromochloromethane	1 ! U	!
! 108-90-7-----	Chlorobenzene	1 ! U	!
! 100-41-4-----	Ethylbenzene	1 ! U	!
! 1330-20-7-----	Xylene (Total)	1 ! J	!

page 1 of 2

FORM I VOA

OLM03.0

0078



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6028-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692570
 Sample wt/vol: 5.36 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s07.d
 Level: (low/med) LOW Date Received: 01/20/06
 Moisture: not dec. 13 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/Kg Q

100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

page 2 of 2

FORM I VOA

OLM03.0

0079



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 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6028-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692570
 Sample wt/vol: 30 (g/mL) G Lab File ID: hb067.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec: 13 dec: Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
 Injection Volume: 2 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
108-95-2	Phenol	38	U	
111-44-4	bis(2-Chloroethyl)ether	38	U	
95-57-8	2-Chlorophenol	38	U	
541-73-1	1,3-Dichlorobenzene	38	U	
106-46-7	1,4-Dichlorobenzene	38	U	
95-50-1	1,2-Dichlorobenzene	38	U	
95-48-7	2-Methylphenol	38	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	38	U	
106-44-5	4-Methylphenol	38	U	
621-64-7	N-Nitroso-di-n-propylamine	38	U	
67-72-1	Hexachloroethane	38	U	
98-95-3	Nitrobenzene	38	U	
78-59-1	Isophorone	38	U	
88-75-5	2-Nitrophenol	38	U	
105-67-9	2,4-Dimethylphenol	77	U	
111-91-1	bis(2-Chloroethoxy)methane	38	U	
120-83-2	2,4-Dichlorophenol	38	U	
120-82-1	1,2,4-Trichlorobenzene	38	U	
91-20-3	Naphthalene	38	U	
106-47-8	4-Chloroaniline	150	U	
87-68-3	Hexachlorobutadiene	38	U	
59-50-7	4-Chloro-3-methylphenol	38	U	
91-57-6	2-Methylnaphthalene	38	U	
77-47-4	Hexachlorocyclopentadiene	77	U	
88-06-2	2,4,6-Trichlorophenol	38	U	
95-95-4	2,4,5-Trichlorophenol	38	U	
91-58-7	2-Chloronaphthalene	38	U	
88-74-4	2-Nitroaniline	38	U	
131-11-3	Dimethylphthalate	38	U	
606-20-2	2,6-Dinitrotoluene	38	U	

FORM I SV-1

OLM03.0

0000



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681


 1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6028-

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692570

Sample wt/vol: 30 (g/mL) G

Lab File ID: hb067.d

Level: (low/med) LOW

Date Received: 01/20/06

% Moisture: not dec: 13 dec:

Date Extracted: 01/23/06

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/07/06

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: _____

Extraction: Sonc

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) MDL	UG/KG	Q
208-96-8	Acenaphthylene	38	U	!
99-09-2	3-Nitroaniline	77	U	!
83-32-9	Acenaphthene	38	U	!
51-28-5	2,4-Dinitrophenol	190	U	!
100-02-7	4-Nitrophenol	38	U	!
132-64-9	Dibenzofuran	38	U	!
121-14-2	2,4-Dinitrotoluene	38	U	!
84-66-2	Diethylphthalate	38	U	!
7005-72-3	4-Chlorophenyl-phenylether	38	U	!
86-73-7	Fluorene	38	U	!
100-01-6	4-Nitroaniline	77	U	!
534-52-1	4,6-Dinitro-2-methylphenol	38	U	!
86-30-6	N-Nitrosodiphenylamine	38	U	!
101-55-3	4-Bromophenyl-phenylether	38	U	!
118-74-1	Hexachlorobenzene	38	U	!
87-86-5	Pentachlorophenol	190	U	!
85-01-8	Phenanthrene	44	J	!
120-12-7	Anthracene	38	U	!
86-74-8	Carbazole	38	U	!
84-74-2	Di-n-butylphthalate	77	U	!
206-44-0	Fluoranthene	38	U	!
129-00-0	Pyrene	38	U	!
85-68-7	Butylbenzylphthalate	38	U	!
91-94-1	3,3'-Dichlorobenzidine	77	U	!
56-55-3	Benzo(a)anthracene	38	U	!
117-81-7	bis(2-Ethylhexyl)phthalate	38	U	!
218-01-9	Chrysene	38	U	!
117-84-0	Di-n-octylphthalate	38	U	!
205-99-2	Benzo(b)fluoranthene	38	U	!
207-08-9	Benzo(k)fluoranthene	38	U	!

FORM I SV-2

OLM03.0

0001


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 717-656-2300 Fax: 717-656-2681



1C cont
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 4692570

Sample wt/vol: 30 (g/mL) G

Lab File ID: hb067.d

Level: (low/med) LOW

Date Received: 01/20/06

% Moisture: not dec: 13 dec:

Date Extracted: 01/23/06

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/07/06

Injection Volume: 2 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

Extraction: Sonc

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL UG/KG Q

50-32-8-----	Benzo(a)pyrene	38	!	U	!
193-39-5-----	Indeno(1,2,3-cd)pyrene	38	!	U	!
53-70-3-----	Dibenz(a,h)anthracene	38	!	U	!
191-24-2-----	Benzo(g,h,i)perylene	38	!	U	!

FORM I SV-3

OLM03.0

0002



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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681


 ID
 ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories

Contract:

6028-

Lab Code: Case No.: SAS No.: SDG No.: PNV88
 Matrix: (soil/water) SOIL Lab Sample ID: 4692570
 Sample wt/vol: 30 (g/mL) g Lab File ID: 4D1353.59R
 % Moisture: 13 decanted: (Y/N)N Date Received: 01/20/06
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/25/06
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/31/06
 Injection Volume: 1 (uL) Dilution Factor: 1
 GPC Cleanup: (Y/N) Y pH: 8 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/kg Q

319-84-6	alpha-BHC	0.20!U	
58-89-9	gamma-BHC (Lindane)	0.20!U	
319-85-7	beta-BHC	0.20!U	
319-86-8	delta-BHC	0.20!U	
76-44-8	Heptachlor	0.20!U	
309-00-2	Aldrin	0.20!U	
1024-57-3	Heptachlor epoxide	0.20!U	
5103-74-2	gamma-Chlordane	0.20!U	
5103-71-9	alpha-Chlordane	0.20!U	
72-55-9	4,4'-DDE	0.38!U	
959-98-8	Endosulfan I	0.20!U	
60-57-1	Dieldrin	0.38!U	
72-20-8	Endrin	0.38!U	
72-54-8	4,4'-DDD	0.50!U	
33213-65-9	Endosulfan II	0.38!U	
50-29-3	4,4'-DDT	0.38!U	
7421-93-4	Endrin aldehyde	0.77!U	
72-43-5	Methoxychlor	2.3!U	
1031-07-8	Endosulfan sulfate	0.38!U	
53494-70-5	Endrin ketone	0.38!U	
12674-11-2	Aroclor-1016	17!U	
11104-28-2	Aroclor-1221	20!U	
11141-16-5	Aroclor-1232	30!U	
53469-21-9	Aroclor-1242	10!U	
12672-29-6	Aroclor-1248	26!U	
11097-69-1	Aroclor-1254	10!U	
11096-82-5	Aroclor-1260	9.2!U	
8001-35-2	Toxaphene	20!U	

FORM I

OLM03.0

0083



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 717-656-2300 Fax: 717-656-2681



1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6028-

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692570
 Sample wt/vol: 5.36 (g/mL) g Lab File ID: HP07566.i/06jan26b.b/rj26s07.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: not dec. 13 Date Analyzed: 01/26/06
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.34	370	J
2. 78-78-4	Butane, 2-methyl-	2.84	55	NJ
3. 109-66-0	Pentane	3.14	50	NJ
4. 75-18-3	Dimethyl sulfide	3.82	11	NJ
5. 107-83-5	Pentane, 2-methyl-	4.40	27	NJ
6.	Unknown	4.78	11	J
7.	Unknown	5.20	20	J
8.	Unknown	6.12	10	J
9. 110-82-7	Cyclohexane	7.04	19	NJ
10. 108-87-2	Cyclohexane, methyl-	8.57	11	NJ
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page 1 of 1

FORM I VOA-TIC

OLM03.0

0004



Lancaster Laboratories, Inc.
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 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4692570
 Sample wt/vol: 30 (g/mL) g Lab File ID: hb067.d
 Level: (low/med) LOW Date Received: 01/20/06
 % Moisture: 13 Decanted: (Y/N) Date Extracted: 01/23/06
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/07/06
 Injection Volume: 2 (uL) Dilution Factor: 1
 GPC Cleanup: Y pH: _____ Extraction: Sonic

CONCENTRATION UNITS:

Number TICs found: 30 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	14.886	100	J
2.	Unknown	16.092	99	J
3.	Unknown	18.012	210	J
4.	Unknown	18.249	120	J
5.	Unknown	18.507	94	J
6.	Unknown	19.547	91	J
7.	Unknown	19.933	120	J
8.	Unknown	20.052	110	J
9.	Unknown	20.777	110	J
10.	Unknown	20.886	84	J
11.	Unknown	21.432	90	J
12.	Unknown	21.948	84	J
13.	Unknown	22.485	120	J
14.	Unknown	23.687	99	J
15.	Unknown	24.105	90	J
16.	Unknown	24.980	85	J
17.	Unknown	25.269	220	J B
18.	Unknown	26.424	130	J
19.	Unknown	27.580	110	J
20.	Unknown	28.507	120	J
21.	Unknown	28.747	93	J
22.	Unknown	28.837	170	J
23.	Unknown	29.047	92	J
24.	Unknown	30.505	120	J
25.	Unknown Carboxylic Acid	30.755	1400	J B
26.	Unknown	30.935	220	J
27.	Unknown	32.485	880	J B
28.	Unknown	32.665	160	J
29.	Unknown	32.905	86	J
30.	Unknown	47.380	2200	J

page 1 of 1

FORM I SV-1

OLM03.0

8885



Lancaster Laboratories, Inc.
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Lancaster Laboratories Sample No. SW 4692571

TIE023:6008:S005020 Soil Sample
Painesville, OH

Collected: 01/19/2006 11:30 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6008- SDG#: PNV88-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00383	TOC by Lloyd Kahn The quantitation limit for TOC was increased due to the nature of the sample matrix.	n.a.	340. J	260.	mg/kg	1
01353	Moisture	n.a.	13.8	0.50	%	1
01441	pH The pH of the method blank (background soil) analyzed with the sample was 7.06. The pH was performed on a 1:1 slurry (50 gm of sample and 50 ml of deionized water) after being tumbled for one hour.	n.a.	7.52	0.0100	Std. Units	1
05892	Hexavalent Chromium by IC	18540-29-9	N.D.	0.23	mg/kg	1
07552	ORP Observed The ORP reported is the observed potential of the platinum electrode used during the analysis.	n.a.	126.	1.0	mV	1
07157	OLM03.2 Volatiles in Soils A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
07125	SVOA Library Search OLM03.2 The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form. An "X" indicates an isomer of the listed compound.					
07126	VOA Library - Search OLM03.2 The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.					

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0000



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4692571

TIE023:6008:S005020 Soil Sample
Painesville, OH

Collected: 01/19/2006 11:30 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006

Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6008- SDG#: PNV88-07

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SOW ILM04.0	1	01/30/2006 12:09	Damary Valentin	1
01643	Aluminum	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
01650	Calcium	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
01654	Iron	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
01657	Magnesium	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
01662	Potassium	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
01667	Sodium	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06925	Thallium	SOW ILM04.0	2	02/08/2006 13:25	Joanne M Gates	1
06935	Arsenic	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06936	Selenium	SOW ILM04.0	2	02/08/2006 13:25	Joanne M Gates	1
06944	Antimony	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06946	Barium	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06947	Beryllium	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06949	Cadmium	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06951	Chromium	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06952	Cobalt	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06953	Copper	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06955	Lead	SOW ILM04.0	2	02/08/2006 13:25	Joanne M Gates	1
06958	Manganese	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06961	Nickel	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06966	Silver	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06971	Vanadium	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
06972	Zinc	SOW ILM04.0	1	01/31/2006 08:44	Joanne M Gates	1
00383	TOC by Lloyd Kahn	Lloyd Kahn modified	1	02/02/2006 13:11	James S Mathiot	1
01353	Moisture	SOW OLM03.2	1	01/24/2006 16:56	Scott W Freisher	1
01441	pH	SOW OLM04.3	1	01/24/2006 18:30	Luz M Groff	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	01/25/2006 14:18	William L Hamaker Jr	1
05910	Total Cyanide CLP (solid)	SOW ILM04.0	1	01/27/2006 17:46	Venia B McFadden	1
07552	ORP Observed	ASTM D1498	1	01/30/2006 08:30	Michelle L Heidig	1
04562	OLM03.2	SOW OLM03.2	1	01/31/2006 20:33	Richard A Shober	1
	Pesticides/PCBs/Soil					
04438	OLM03.2 Semivolatiles/Soil	SOW OLM03.2	1	02/07/2006 05:16	Linda M Hartenstine	1
07157	OLM03.2 Volatiles in Soils	SOW OLM03.2	1	01/26/2006 22:15	Jason M Long	0.83
00494	SW CLP Hg Digest	SOW ILM04.0	1	01/29/2006 23:15	Annamaria Stipkovits	1
01849	SW CLP ICP Digest	SOW ILM04.0	1	01/29/2006 20:50	Annamaria Stipkovits	1
04185	CLP Soil Extraction	SOW OLM03.2	1	01/25/2006 07:00	Danette S Cavalier	1
04607	CLP Soil Extraction	SOW OLM03.2	1	01/23/2006 05:00	Mark P Mastropietro	1
05909	CLP Cyanide Solid	SOW ILM04.0	1	01/25/2006 11:40	Choon Y Tian	1
	Distillation					
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	01/20/2006 16:06	Justin M Bowers	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	01/24/2006 22:15	Daniel S Smith	1



Lancaster Laboratories Sample No. SW 4692571

TIE023:6008:S005020 Soil Sample
Painesville, OH

Collected: 01/19/2006 11:30 by MT

Account Number: 06101

Submitted: 01/20/2006 09:00
Reported: 02/16/2006 at 00:55
Discard: 03/03/2006

Tierra Solutions, Inc.
PO Box 1487
Painesville OH 44077

6008- SDG#: PNV88-07

08389	GC/MS - LL Encore Prep	SW-846 5035
08389	GC/MS - LL Encore Prep	SW-846 5035

1	01/20/2006 16:20	Justin M Bowers	n.a.
2	01/20/2006 16:21	Justin M Bowers	n.a.

0000



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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



USEPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6008-

Lab Name: LANCASTER LABORATORIES Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: PNV88
 Matrix (soil/water): SOIL Lab Sample ID: 4692571
 Level (low/med): LOW Date Received: 01/20/06
 % Solids: 86.2
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11700			P
7440-36-0	Antimony	1.7	U	N	P
7440-38-2	Arsenic	13.8		N	P
7440-39-3	Barium	77.6			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	24800			P
7440-47-3	Chromium	18.7			P
7440-48-4	Cobalt	14.7			P
7440-50-8	Copper	27.2			P
7439-89-6	Iron	33800			P
7439-92-1	Lead	16.3			P
7439-95-4	Magnesium	9940		*	P
7439-96-5	Manganese	380			P
7439-97-6	Mercury	0.023	U		CV
7440-02-0	Nickel	36.5			P
7440-09-7	Potassium	2240			P
7782-49-2	Selenium	0.97	U		P
7440-22-4	Silver	0.44	B		P
7440-23-5	Sodium	167	B		P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	17.0			P
7440-66-6	Zinc	76.5			P
57-12-5	Cyanide	0.22	U		CA

Color Before: BROWN

Clarity Before: _____

Texture: MEDIUM

Color After: YELLOW

Clarity After: _____

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

0009



Lancaster Laboratories, Inc.
 2425 New Holland Pike
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 Lancaster, PA 17605-2425
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